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FIGURE 1

CTGCGGCAAAGAACCGGGCTGTGTCCAAAGTGTTCTCTGGAAGTTGTAGTTCCTGTATTGGTGAGGCAAGGAGGA
GGCGGAGTGACTCGGCGGCCATTAGCTGTGTGTAGTTGCCCGGGACTAGGAGCTTAAGTGAAGAGGTACGCCTTG
TTCGGTGGAAATCAGCCGTAGCCATGAGTTTCTGCCGGGGCTAGCCCTAGAGTACGGAGCAGGCGGACTTTTCGG
TTCCCCGCCCCGCCAGGTGGCGGGGCCTACTAGGCCTCCGGGCATCCCCGGTCTCAAGTAGGCCTCATCTGCCGG
CAAGGGCGCCCGAAACGCGGGAGGCGCC**ATG**TCGCTGGTTGCTTACGCCAGCAGCGATGAGAGCGAGCCGGATGA
GGCTGAGCCCGAGCCGGAGGAAGAGGAGGCGGTGGCTCCTACATCTGGGCCCGCTTTAGGGGGCTTGTTCGCTTC
TCTCCCTGCGCCCAAGGGTCCGGCCTTGCTGCCTCCGCCCCCTCAGATGCTGGCGCCAGCCTTTCCCCCGCCGCT
GTTGCTTCCCCCACCCACCGGAGACCCCAGGCTTCAGCCTCCTCCCCCCTTGCCCTTCGGCCTGGGAGGCTTCCC
CCCACCTCCAGGCGTGAGCCCGGCTGAAGCGGCGGGAGTTGGGGAGGGACTGGGATTGGGGTTGCCCTCGCCCCG
AGGCCCTGGCCTCAATCTGCCCCCTCCAATTGGCGGTGCCGGTCCCCCGCTGGGGCTTCCCAAGCCAAAGAAGAG
GAAAGAGCCCGTGAAGATCGCGGCGCCGGAGTTGCATAAGGGAGATTCAGATTCTGAGGAAGATGAACCCACAAA
GAAGAAAACTATCCTTCAGGGATCCAGTGAGGGGACTGGTTTGTCTGCCTTGCTTCCCCAACCTAAAAACCTGAC
TGTGAAAGAGACTAACAGGTTGCTCCTGCCCCATGCCTTCTCCCGCAAACCCTCGGATGGCTCCCCTGATACTAA
GCCCTCCAGACTGGCTTCTAAGACCAAGACTTCCTCTCTTGCCCCTGTTGTGGGCACCACAACCACCACTCCGTC
GCCCTCTGCTATCAAGGCTGCTGCCAAGAGTGCTGCCCTGCAGGTGACAAAGCAGATCACGCAGGAAGAAGACGA
CAGTGATGAGGAAGTAGCCCCCGAAAACTTTTTCTCCCTCCCTGAAAAGGCTGAGCCACCTGGAGTTGAGCCATA
CCCTTACCCCATCCCCACTGTCCCTGAAGAGCTGCCTCCAGGCACGGAACCAGAGCCGGCTTTCCAGGACGATGC
AGCCAATGCCCCCCTTGAATTCAAGATGGCAGCAGGTTCAAGTGGGGCCCCTTGGATGCCTAAGCCTGGGGACGA
CTACAGCTACAATCAGTTTTCCACATATGGCGATGCCAATGCCGCTGGTGCTTATTATCAGGATTATTACAGTGG
TGGCTACTATCCTGCACAGGACCCGGCCCTGGTCCCCCCCCCAGGAAATTGCCCCAGATGCCTCCTTCATCGATGA
CGAAGCATTTAAGCGGCTGCAGGGCAAGAGGAACCGAGGGAGAGAAGAAATCAACTTTGTGGAGATCAAAGGTGA
TGACCAGCTCAGTGGGGCCCAGCAATGGATGACTAAGTCATTGACAGAAGAGAAAACCATGAAGTCATTCAGCAA
AAAGAAAGGTGAGCAGCCAACAGGCCAGCAGCGGCGGAAACACCAGATCACATATCTTATTCATCAGGCCAAGGA
GCGGGAGCTGGAACTGAAGAACACCTGGTCAGAGAACAAGCTCAGCCGCCGTCAGACCCAAGCCAAATATGGATT
C**TAG**GGCTCTGGAACTGATTGCTCCCAGGATCTCCTGCCAGCCCAGCTGGCCTGGCCCCCAGCTTCACCTCTGGG
ACCCCAGCTGCTCTAAGCCCAGGATCTCTTTCCCCAAGGACCCAGCCCTCGCCTCTGCGAGAATGAACATATTTG
ATAGATTTTTCTTAACAAGTTAGAAAATTCAGCTCCTTTCTGTCCTGGAGCTAGCAAAGACTTGTGTGATGCCTC
CGAAGGGGCTCTGAGTTCTGGGGTGGGAGTTTTGCTCTCTGTCAGGTGTGATAAAATGTTGAACCCTCCCCACCA
CCACTTTTTTTTTTTTAAACCAGGGATGTCTGTTGAAATAAAACATTCAGTCTGAC

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FIGURE 2

GAGGAGGAGTGGGGACCGGGCGGGGGGTGGAGGAAGAGGCCTCGCGCAGAGGAGGGAGCAATTGAATTTCAAACA
CAAACAACTGCACGAGCGCGCACCCACCGCGCCGGAGCCTTGCCCCGATCCGCGCCCGCCCCGTCCGTGCGGCGC
GCGGGCGGAGACGCCGTGGCCGCGCCGGAGCTCGGGCCGGGGGCCACCATCGAGGCGGGGGCCGCGCGAGGGCCG
GAGCGGAGCGGCGCCGCCACCGCCGCACGCGCAAACTTGGGCTCGCGCTTCCCGGCCCGGCGCGGAGCCCGGGGC
GCCCGGAGCCCCGCC**ATG**TCGCGATCCAACCGGCAGAAGGAGTACAAATGCGGGGACCTGGTGTTCGCCAAGATG
AAGGGCTACCCACACTGGCCGGCCCGGATTGACGAGATGCCTGAGGCTGCCGTGAAATCAACAGCCAACAAATAC
CAAGTCTTTTTTTTCGGGACCCACGAGACGGCATTCCTGGGCCCCAAAGACCTCTTCCCTTACGAGGAATCCAAG
GAGAAGTTTGGCAAGCCCAACAAGAGGAAAGGGTTCAGCGAGGGGCTGTGGGAGATCGAGAACAACCCTACTGTC
AAGGCTTCCGGCTATCAGTCCTCCCAGAAAAAGAGCTGTGTGGAAGAGCCTGAACCAGAGCCCGAAGCTGCAGAG
GGTGACGGTGATAAGAAGGGGAATGCAGAGGGCAGCAGCGACGAGGAAGGGAAGCTGGTCATTGATGAGCCAGCC
AAGGAGAAGAACGAGAAAGGAGCGTTGAAGAGGAGAGCAGGGGACTTGCTGGAGGACTCTCCTAAACGTCCCAAG
GAGGCAGAAAACCCTGAAGGAGAGGAGAAGGAGGCAGCCACCTTGGAGGTTGAGAGGCCCCTTCCTATGGAGGTG
GAAAAGAATAGCACCCCCTCTGAGCCCGGCTCTGGCCGGGGGCCTCCCCAAGAGGAAGAAGAGGAGGAGGATGAA
GAGGAAGAGGCTACCAAGGAAGATGCTGAGGCCCCAGGCATCAGAGATCATGAGAGCCTG**TAG**CCACCAATGTTT
CAAGAGGAGCCCCCACCCTGTTCCTGCTGCTGTCTGGGTGCTACTGGGGAAACTGGCCATGGCCTGCAAACTGGG
AACCCCTTTCCCACCCCAACCTGCTCTCCTCTTCTACTCACTTTTCCCACTCCAAGCCCAGCCCATGGAGATTGA
CCTGGATGGGGCAGGCCACCTGGCTCTCACCTCTAGGTCCCCATACTCCTATGATCTGAGTCAGAGCCATGTCTT
CTCCCTGGAATGAGTTGAGGCCACTCTGTTCCTTCCGCTTGGGAGGGGCAATCCTCAAATGCGGGGTGGGGGCAG
CACAGGAGGGCGGCCTCCTTCTGAGCTCCTGTCCCCTGCTACACCTATTATCCCAGCTGCCTAGATTCAGGGAAA
GTGGGACAGCTTGTAGGGGAGGGGCTCCTTTCCATAAATCCTTGATGATTGACAACACCCATTTTTCCTTTTGCC
GACCCCAAGAGTTTTGGGAGTTGTAGTTAATCATCAAGAGAATTTGGGGCTTCCAAGTTGTTCGGGCCAAGGACC
TGAGACCTGAAGGGTTGACTTTACCCATTTGGGTGGGAGTGTTGAGCATCTGTCCCCCTTTAGATCTCTGAAGCC
ACAAATAGGATGCTTGGGAAGACTCCTAGCTGTCCTTTTTCCTCTCCACACAGTGCTCAAGGCCAGCTTATAGTC
ATATATATCACCCAGACATAAAGGAAAAGACACATTTTTTAGGAAATGTTTTTAATAAAAGAAAATTACAAAAAA
AAATTTTAAAGACCCCTAACCCTTTGTGTGCTCTCCATTCTGCTCCTTCCCCATCGTTGCCCCCATTTCTGAGGT
GCACTGGGAGGCTCCCCTTCTATTTGGGGCTTGATGACTTTCTTTTTGTAGCTGGGGCTTTGATGTTCCTTCCAG
TGTCATTTCTCATCCACATACCCTGACCTGGCCCCCTCAGTGTTGTCACCAGATCTGATTTGTAACCCACTGAGA
GGACAGAGAGAAATAAGTGCCCTCTCCCACCCTCTTCCTACTGGTCTCTCTATGCCTCTCTACAGTCTCGTCTCT
TTTACCCTGGCCCCTCTCCCTTGGGCTCTGATGAAAAATTGCTGACTGTAGCTTTGGAAGTTTAGCTCTGAGAAC
CGTAGATGATTTCAGTTCTAGGAAAATAAAACCCGTTGATTACT

FIGURE 3

GCGGGGGAGGGGACGCTGAGGGCCCATGTGCTGAAAATCCGAAGTGCCGCGGAAAGTGGAGAGCTGACAAGGAAG
GTTTCGAGCGTTTTGCTGGCAAAGGGATTTCTTACAACCTCCAGGCATGCGTCTTTCTGCCCTGCTGGCCTTGGC
ATCCAAGGTCACTCTGCCCCCCCCATTACCGCTATGGGATGAGCCCCCCAGGCTCTGTTGCAGACAAGAGGAAGAA
CCCCCCATGGATCAGGCGGCGCCCAGTGGTTGTGGAACCCATCTCTGATGAAGACTGGTATCTGTTCTGTGGGGA
CACGGTGGAGATCCTAGAAGGCAAGGATGCCGGGAAGCAGGGCAAAGTGGTTCAAGTTATCCGGCAGCGAAACTG
GGTGGTCGTGGGAGGGCTGAACACACATTACCGCTACATTGGCAAGACCATGGATTACCGGGGAACCATGATCCC
TAGTGAAGCCCCCTTGCTCCACCGCCAGGTCAAACTTGTGGATCCTATGGACAGGAAACCCACTGAGATCGAGTG
GAGATTTACTGAAGCAGGAGAGCGGGTACGAGTCTCCACACGATCAGGGAGAATTATCCCTAAACCCGAATTTCC
CAGAGCTGATGGCATCGTCCCTGAAACGTGGATTGATGGCCCCAAAGACACATCAGTGGAAGATGCTTTAGAAAG
AACCTATGTGCCCTGTCTAAAGACACTGCAGGAGGAGGTGATGGAGGCCATGGGGATCAAGGAGACCCGGAAATA
CAAGAAGGTCTATTGGTATTGAGCCTGGGGCAGAGCAGCTCCTCCCCAACTTCTGTCCCAGCCTTGAAGGCTGAG
GCACTTCTTTTTCAGATGCCAATAAAGAGCACTTTATGAGTC

FIGURE 4

AAGGCAGGCGCGCGGGTTAGAACGCGCCAGAGGTCGGCGCGCGCACACCCGCACCGCCCCGACCCCAGGTAGTGA
GGCCAGTGATTCCGAGTGTGTGAGGAGAGGAGTGTACGGCAAGGGGCGGGAACTGGAACTTGGCCCGCCTCGTTG
TGAGCTGAGCTCAGCGGCACGCTTTTGTGGCGTCACTGCACTGTTACCCCGCCCTACGTGTCTCTGACGCTGACA
CCTTCTCACTGTGAAACGTCGCGACCTGTGACGTCTGGGGGGCGCCTCAAATCTTCCACTCCAGCATCGGATCCC
GGAAAGGCAGCGTCGGAGACTGGACCCAAAACTCTTCCTGTTCTGCCTGCAGAGTTGAGCCCCGTCCGGGTCCTG
GACCCGCGTAGTACTGACCCTGGATCCCTGTTCACTGCGTTCTCGCTCCCCGCGCTCCCTGCTGGACCCCGGGATT
GCCGGGCATCTCCGCCCGAGGCCTCTCTCATGAGGGGAGGAAGCAGCTAGCTGTTAACCTCACCCGTGTCCTGGC
ACTCTACCGTTCCATCTTGGATGCCTACATCATCGAATTTTTCACAGACAACCTATGGGACACACTCCCTTGCTC
ATGGCAGGAAGCATTGGATGGACTGAAACCACCACAGCTGGCCACAATGCTGCTGGGGATGCCTGGGGAAGGGGA
GGTCGTCAGGTACAGGTCAGTGTGGCCACTCACCCTGCTGGCCCTGAAGTCCACGGCGTGTGCCCTGGCCTTTAC
CCGGATGCCTGGCTTTCAGACCCCCTCAGAATTCCTGGAGAACCCCAGCCAGAGCTCCCGACTAACAGCTCCATT
CCGGAAACATGTCAGGCCCAAGAAGCAGCATGAGATCCGGAGGCTGGGAGAGTTGGTGAAGAAGCTGAGTGATTT
CACAGGCTGCACCCAGGTTGTAGACGTGGGCTCAGGCCAGGGCCATCTCTCCCGCTTCATGGCTCTTGGCCTGGG
GTTGATGGTGAAGAGCATCGAAGGGGATCAGAGACTGGTGGAGAGAGCCCAGCGCCTGGACCAGGAGCTTCTGCA
GGCTCTGGAGAAAGAGGAGAAGAGGAACCCGCAGGTGGTCCAAACCAGCCCTCGTCACTCCCCACACCACGTGGT
TAGGTGGGTAGACCCCACAGCCCTGTGTGAGGAGCTTCTGCTTCCACTGGAGAACCCGTGTCAGGGCAGGGCCCG
CTTGCTGCTCACAGGCCTCCACGCCTGTGGGGATCTGAGTGTTGCCTTGCTGAGACACTTCTCCTGCTGTCCTGA
GGTGGTGGCCCTGGCCTCAGTGGGCTGCTGCTACATGAAGCTGAGTGACCCTGGCGGCTACCCACTGAGTCAGTG
GGTGGCTGGGCTGCCTGGCTATGAACTGCCCTACCGGCTTCGGGAGGGGGCCTGCCATGCCCTGGAGGAATATGC
TGAGCGGCTACAGAAAGCTGGCCCTGGCCTTCGAACTCACTGCTACCGTGCAGCACTGGAGACAGTCATCCGACG
GGCCCGGCCCGAGCTCCGTCGGCCAGGCGTGCAGGGTATCCCCAGGGTCCACGAGCTCAAGATTGAAGAATATGT
GCAGCGGGGGCTACAGCGAGTGGGGCTAGATCCCCAGCTGCCACTGAATCTGGCTGCCCTTCAGGCCCACGTGGC
CCAGGAGAACCGTGTGGTGGCCTTCTTCAGCCTGGCTCTACTGCTTGCCCCACTGGTGGAGACGCTTATTCTACT
GGACCGGCTGCTGTACCTTCAGGAACAGGGTTTCCATGCTGAGCTCCTGCCCATCTTCAGTCCTGAACTCTCTCC
CAGAAACCTGGTTCTGGTGGCCACCAAGATGCCCCTGGGTCAGGCTCTTTCTGTTCTGGAGACTGAAGACAGCTG
ATGCAGCCTGAGGAAACATCTCAGACCCCATCATCTGAAAGTGCCCAGAGAGCACAGTGGCAGAGTACATCTCAT
CCAGAGAAACAGCATCCTGCATCCTCCAGAGTCCTGGTTCCTTCAGTTTCATCCCCTTTCTCTCCTTCCATGGAT
TATGTAATACATTGTAAAGTTTTAATTAATTAAAAATTGGATATCTG

FIGURE 5

CTGGGAGGTAGGTTTGTGAGCGTGAGAGATCGATCTGTACCGCGGGGATCCGAAGTATGCTTATCCAGGTGGGCT
GCCTCAAGCCTCGATCCCACCCCCGCGCTGGTAGATGGTGTCAAGGTCCTTGCGTGGGAGAAGGACTTGGGTGAG
ATGCATGCGGAGATTGCCCCCAATTCCGGCCTGGAGCCAAGGGAAAGGGATGCCTGGATTTGTGTCTCTATTGGT
GGTCCACGCTGCGGATGCCTGGGTAGCCCAGAGGTTATCTACGCCATACTTCTCACTGTTTTTGAGCATACCTAG
ATGTTCCTTTCCTAGGCGGAGTATAGATCGCACGTGTTCTAGCCTCTTAGACTCAGAGGGTTCGAGCTCTATAAG
CCCCTCCACTCCCTTCATTTTACAAATGAGACTCAAACCTAGAGCGCGGTAATGACCTTACTAAGACCAAATGGC
TGGTGAATTGGGCTTCACTAGAATCCAGGCTTGCTGGCTAACACCAATGCTCCCTCCATCATTTCATGTTATGTT
TTCATTTCCCCTCTGTCTGAGAGATTGCTCTGATGTCTTTCCTTCCATAAGTCCTACGGAGATCGAGCTTACCTC
ATTTTTCTCCCAGGCCTAGGAGCTCAATTACCAGGATCACTTTCTTCCCCAGGGTGTACTACAGACCTCCACATG
TTGGACAGTAGGATTCAGCAGAGAATGAGTCCCACATCCTCTTTTCATCCATAAGCCACTCTTCCCAACTACTCT
TCCGCCTTCCATTGTCCCT**ATG**TCTACTTTACTGCTCAATCTGGATTTTGGGGAACCTCCTCCCAAAAAGGCATT
AGAAGGAAATGCCAAGCACCGAAATTTTGTCAAGAAGCGGAGGCTCTTAGAACGGAGAGGCTTTCTGAGTAAAAA
GAACCAACCCCCTAGCAAGGCGCCTAAGTTGCACTCTGAACCTTCAAAGAAAGGGGAAACTCCTACGGTCGATGG
CACTTGGAAGACCCCTTCCTTCCCAAAAAAGAAGACAGCTGCTTCCAGCAATGGGTCAGGACAGCCCCTGGACAA
GAAAGCTGCAGTGTCTTGGTTGACCCCTGCCCCTTCAAAAAAGGCTGATTCTGTTGCTGCTAAAGTAGATTTGCT
GGGGGAGTTCCAGAGTGCCCTTCCAAAGATCAATAGCCACCCAACCCGCTCTCAGAAGAAGAGCTCCCAGAAGAA
ATCCTCTAAAAAGAACCATCCTCAGAAGAATGCCCCACAGAACTCCACCCAAGCTCATTCAGAGAATAAATGCTC
CGGAGCATCCCAGAAGTTGCCACGGAAGATGGTGGCAATTGACTGTGAGATGGTGGGCACAGGACCAAAGGGGCA
TGTTAGTTCCTTGGCTCGATGTAGCATTGTCAACTACAACGGAGATGTGCTTTATGACGAGTACATTCTTCCCCC
CTGCCACATTGTGGACTACCGAACCAGGTGGAGTGGTATCCGGAAGCAGCACATGGTGAATGCCACACCCTTCAA
GATTGCTCGAGGCCAGATCTTGAAGATACTCACAGGGAAGATAGTGGTGGGGCATGCCATCCACAACGACTTCAA
AGCCCTTCAGTACTTTCACCCCAAGTCCCTCACCCGTGACACCTCCCATATCCCCCCCCTCAACCGGAAGGCTGA
CTGCCCGGAGAATGCCACCATGTCTCTGAAGCATCTCACCAAGAAGCTGCTAAACCGGGATATCCAGGTTGGGAA
GAGCGGACATTCCTCTGTGGAAGATGCCCAGGCCACCATGGAGCTATATAAGTTGGTTGAAGTCGAGTGGGAAGA
GCACCTAGCCCGGAATCCCCCTACAGAC**TAG**TGGCAGTGGGGACGCTGGTGATATGAGGAGGCAGAGGCAGCACC
CAGGAGAAACAGGGCAGTGGACCAATGGACAGCTCCACCAGCTCCACATCTTTGGAAGCTAGATTTGGGGAGAGA
GAAGCTCTACCCCAGACTTAATACCCATTGAAATTTCACCTCAGGTGTTGTGTCCTGTGTCTGGTTAAGTGTCCC
ATGGAAGGGGAAAGCCTTCACGTCAGAACCCAACCCTATACCTTTTACTTCTTAAATGGTGCTAACCACAGGTGT
CCCAGGGTGCTCTGTGCCAGTTAAGATTTTTAACTTTCAAGGGGCAGGGCATACTGGGAAATGTAGTTTCCCAAA
CTGCCTTATCACTTGGGTGGACATATGTCTCCTTTTATGCCTTTTGGTCTTGAGTAATTAACAGCATCCTCTTCC
ACGCTCAGAAGTGTTCTGGTTGGGGCCAGGCATGGTGGCTCACACCTGTAGTCCCAACACTTAGGGAGGCCGAGG
CGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGCGAATTCCCGTTCTCTACTAAAAAT
ACAAAAAATGTGTGGGGTGTGGTGGCAGGAGCCTGTAATCCTAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCT
TGAGCCCAGGAGGCGGAGATTGCAGTGAGCCGAGATCGTGTCACTGCACTCCAGCCTGGGTGACAAGAGTGAGAC
TCCGTCTCCAAAAAAAAAAAAAAAGAATTTATTAACCTGGTTGGTTAATAAATTGTGTGGTCCCTGCCGGGCGTG
GTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGACGGGCAGATCACGAGGTCAGGAGATCGAGACCAT
CCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCGGGCACCTGTA
GTTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATT
GTGCCACTGCACTCCAGCCTGGGCCACGGCCACAGAGCGAGACTCTGTCTC

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FIGURE 6

AGCTTTGGGGTTGTCCCTGGACTTGTCTTGGTTCCAGAACCTGACGACCCGGCGACGGCGACGTCTCTTTTGACT
AAAAGACAGTGTCCAGTGCTCCAGCCTAGGAGTCTACGGGGACCGCCTCCCGCGCCGCCACCATGCCCAACTTCT
CTGGCAACTGGAAAATCATCCGATCGGAAAACTTCGAGGAATTGCTCAAAGTGCTGGGGGTGAATGTGATGCTGA
GGAAGATTGCTGTGGCTGCAGCGTCCAAGCCAGCAGTGGAGATCAAACAGGAGGGAGACACTTTCTACATCAAAA
CCTCCACCACCGTGCGCACCACAGAGATTAACTTCAAGGTTGGGGAGGAGTTTGAGGAGCAGACTGTGGATGGGA
GGCCCTGTAAGAGCCTGGTGAAATGGGAGAGTGAGAATAAAATGGTCTGTGAGCAGAAGCTCCTGAAGGGAGAGG
GCCCCAAGACCTCGTGGACCAGAGAACTGACCAACGATGGGGAACTGATCCTGACCATGACGGCGGATGACGTTG
TGTGCACCAGGGTCTACGTCCGAGAGTGAGTGGCCACAGGTAGAACCGCGGCCGAAGCCCACCACTGGCCATGCT
CACCGCCCTGCTTCACTGCCCCCTCCGTCCCACCCCCTCCTTCTAGGATAGCGCTCCCCTTACCCCAGTCACTTC
TGGGGGTCACTGGGATGCCTCTTGCAGGGTCTTGCTTTCTTTGACCTCTTCTCTCCTCCCCTACACCAACAAAGA
GGAATGGCTGCAAGAGCCCAGATCACCCATTCCGGGTTCACTCCCCGCCTCCCCAAGTCAGCAGTCCTAGCCCCA
AACCAGCCCAGAGCAGGGTCTCTCTAAAGGGGACTTGAGGGCCTGAGCAGGAAAGACTGGCCCTCTAGCTTCTAC
CCTTTGTCCCTGTAGCCTATACAGTTTAGAATATTTATTTGTTAATTTTATTAAAATGCTTTAAAAAAA

FIGURE 7

AGTCGCTCAGGCTACTCCCACCCCGCCCCGCCCCGTCATTGTCCCCGTCGGTCTCTTTTCTCTTCCGTCCTAAAA
GCTCTGCGAGCCGCTCCCTTCTCCCGGTGCCCCGCGTCTGTCCATCCTCAGTGGGTCAGACGAGCAGGATGGAGG
GCTGCAGAACTGGCTCAGGAAAGCCCTCCTGGGATGGCTGGAGTGGAAAATGAGGATGAGGCAGAGCTGAATCTG
AGGGAGCAGGATGGCTTCACTGGGAAGGAGGAGGTGGTAGAGCAGGGAGAGCTGAATGCCACAGAGGAGGTCTGG
ATCCCAGGCGAGGGGCACCCAGAGAGCCCTGAGCCCAAAGAGCAGAGAGGCCTGGTTGAGGGAGCCAGTGTGAAG
GGAGGGGCTGAGGGCCTCCAGGACCCTGAAGGGCAATCACAACAGGTGGGGGCCCCAGGCCTCCAGGCTCCCCAG
GGGCTGCCAGAGGCGATAGAGCCCCTGGTGGAAGATGATGTGGCCCCAGGGGGTGACCAAGCCTCCCCAGAGGTC
ATGTTGGGGTCAGAGCCTGCCATGGGTGAGTCTGCTGCGGGAGCTGAGCCAGGCCCGGGGCAGGGGGTGGGAGGG
CTGGGGGACCCAGGCCATCTGACCAGGGAAGAGGTGATGGAACCACCCCTGGAAGAGGAGAGTTTGGAGGCAAAG
AGGGTTCAGGGCTTGGAAGGGCCTAGAAAGGACCTAGAGGAGGCAGGTGGTCTGGGGACAGAGTTCTCCGAGCTG
CCTGGGAAGAGCAGAGACCCTTGGGAGCCTCCCAGGGAGGGTAGGGAGGAGTCAGAGGCTGAGGCCCCCAGGGGA
GCAGAGGAGGCGTTCCCTGCTGAGACCCTGGGCCACACTGGAAGTGATGCCCCTTCACCTTGGCCTCTGGGGTCA
GAGGAAGCTGAGGAGGATGTACCACCAGTGCTGGTCTCCCCCAGCCCAACGTACACCCCGATCCTGGAAGATGCC
CCTGGGCCTCAGCCTCAGGCTGAAGGGAGTCAGGAGGCTAGCTGGGGGGTGCAGGGGAGGGCTGAAGCCCTGGGG
AAAGTAGAGAGCGAGCAGGAGGAGTTGGGTTCTGGGGAGATCCCCGAGGGCCCCCAGGAGGAAGGGGAGGAGAGC
AGAGAAGAGAGCGAGGAGGATCAGGAGGAGGGGAGGGAGCCAGGGGCTGGGCGGTGGGGGCCAGGGTCTTCTGTT
GGCAGCCTCCAGGCCCTGAGTAGCTCCCAGAGAGGGGAATTCCTGGAGTCTGATTCTGTGAGTGTCAGTGTCCCC
TGGGATGACAGCTTGAGGGGTGCAGTGGCTGGTGCCCCCAAGACTGCCCTGGAAACGGAGTCCCAGGACAGTGCT
GAGCCTTCTGGCTCAGAGGAAGAGTCTGACCCTGTTTCCTTGGAGAGGGAGGACAAAGTCCCTGGCCCTCTAGAG
ATCCCCAGTGGGATGGAGGATGCAGGCCCAGGGGCAGACATCATTGGTGTTAATGGCCAGGGTCCCAACTTGGAG
GGGAAGTCACAGCATGTGAATGGGGGAGTGATGAACGGGCTGGAGCAGTCTGAGGAAGTGGGGCAAGGAATGCCG
CTAGTCTCTGAGGGAGACCGAGGGAGCCCCTTTCAGGAGGAGGAGGGGAGTGCTCTGAAGACCTCTTGGGCAGGG
GCTCCTGTTCACCTGGGCCAGGGTCAGTTCCTGAAGTTCACTCAGAGGGAAGGAGATAGAGAGTCCTGGTCCTCA
GGGGAGGACTAGGAAAAGACCATCTGCCCGGCACTGGGGACTTAGGGGTGCGGGGAGGGGAAGGACGCCTCCAAG
CCCGCTCCCTGCTCAGGAGCAGCACTCTTAACTTACGATCTCTTGACATATGGTTTCTGGCTGAGAGGCCTGGCC
CGCTAAGGTGAAAAGGGGTGTGGCAAAGGAGCCTACTCCAAGAATGGAGGCTGTAGGAATATAACCTCCCACCCT
GCAAAGGGAATCTCTTGCCTGCTCCATCTCATAGGCTAAGTCAGCTGAATCCCGATAGTACTAGGTCCCCTTCCC
TCCGCATCCCGTCAGCTGGAAAAGGCCTGTGGCCCAGAGGCTTCTCCAAAGGGAGGGTGACATGCTGGCTTTTGT
GCCCAAGCTCACCAGCCCTGCGCCACCTCACTGCAGTAGTGCACCATCTCACTGCAGTAGCACGCCCTCCTGGGC
CGTCTGGCCTGTGGCTAATGGAGGTGACGGCACTCCCATGTGCTGACTCCCCCCATCCCTGCCACGCTGTGGCCC
TGCCTGGCTAGTCCCTGCCTGAATAAAGTAATGCCTCCGCTTC

FIGURE 8

CGCTCGTCCTTGCTCTCGCCGCTGCTGCCGGAGCCGAAGCAGAGAAGGCAGCGGGTCCCGTGACCGTCCCGAGAG
CCCCGCGCTCCCGACCAGGGGGCGGGGGCGGCCCCGGGGAGGGCGGGGCAGGGGCGGGGGGAAGAAAGGGGGTTT
TGTGCTGCGCCGGGAGGGCCGGCGCCCTCTTCCGAATGTCCTGCGGCCCCAGCCTCTCCTCACGCTCGCGCAGTC
TCCGCCGCAGTCTCAGCTGCAGCTGCAGGACTGAGCCGTGCACCCGGAGGAGACCCCCGGAGGAGGCGACAAACT
TCGCAGTGCCGCGACCCAACCCCAGCCCTGGGTAGCCTGCAGC**ATG**GCCCAGCTGTTCCTGCCCCTGCTGGCAGC
CCTGGTCCTGGCCCAGGCTCCTGCAGCTTTAGCAGATGTTCTGGAAGGAGACAGCTCAGAGGACCGCGCTTTTCG
CGTGCGCATCGCGGGCGACGCGCCACTGCAGGGCGTGCTCGGCGGCGCCCTCACCATCCCTTGCCACGTCCACTA
CCTGCGGCCACCGCCGAGCCGCCGGGCTGTGCTGGGCTCTCCGCGGGTCAAGTGGACTTTCCTGTCCCGGGGCCG
GGAGGCAGAGGTGCTGGTGGCGCGGGGAGTGCGCGTCAAGGTGAACGAGGCCTACCGGTTCCGCGTGGCACTGCC
TGCGTACCCAGCGTCGCTCACCGACGTCTCCCTGGCGCTGAGCGAGCTGCGCCCCAACGACTCAGGTATCTATCG
CTGTGAGGTCCAGCACGGCATCGATGACAGCAGCGACGCTGTGGAGGTCAAGGTCAAAGGGGTCGTCTTTCTCTA
CCGAGAGGGCTCTGCCCGCTATGCTTTCTCCTTTTCTGGGGCCCAGGAGGCCTGTGCCCGCATTGGAGCCCACAT
CGCCACCCCGGAGCAGCTCTATGCCGCCTACCTTGGGGGCTATGAGCAATGTGATGCTGGCTGGCTGTCGGATCA
GACCGTGAGGTATCCCATCCAGACCCCACGAGAGGCCTGTTACGGAGACATGGATGGCTTCCCCGGGGTCCGGAA
CTATGGTGTGGTGGACCCGGATGACCTCTATGATGTGTACTGTTATGCTGAAGACCTAAATGGAGAACTGTTCCT
GGGTGACCCTCCAGAGAAGCTGACATTGGAGGAAGCACGGGCGTACTGCCAGGAGCGGGGTGCAGAGATTGCCAC
CACGGGCCAACTGTATGCAGCCTGGGATGGTGGCCTGGACCACTGCAGCCCAGGGTGGCTAGCTGATGGCAGTGT
GCGCTACCCCATCGTCACACCCAGCCAGCGCTGTGGTGGGGGCTTGCCTGGTGTCAAGACTCTCTTCCTCTTCCC
CAACCAGACTGGCTTCCCCAATAAGCACAGCCGCTTCAACGTCTACTGCTTCCGAGACTCGGCCCAGCCTTCTGC
CATCCCTGAGGCCTCCAACCCAGCCTCCAACCCAGCCTCTGATGGACTAGAGGCTATCGTCACAGTGACAGAGAC
CCTGGAGGAACTGCAGCTGCCTCAGGAAGCCACAGAGAGTGAATCCCGTGGGGCCATCTACTCCATCCCCATCAT
GGAGGACGGAGGAGGTGGAAGCTCCACTCCAGAAGACCCAGCAGAGGCCCCTAGGACGCTCCTAGAATTTGAAAC
ACAATCCATGGTACCGCCCACGGGGTTCTCAGAAGAGGAAGGTAAGGCATTGGAGGAAGAAGAGAAATATGAAGA
TGAAGAAGAGAAAGAGGAGGAAGAAGAAGAGGAGGAGGTGGAGGATGAGGCTCTGTGGGCATGGCCCAGCGAGCT
CAGCAGCCCGGGCCCTGAGGCCTCTCTCCCCACTGAGCCAGCAGCCCAGGAGGAGTCACTCTCCCAGGCGCCAGC
AAGGGCAGTCCTGCAGCCTGGTGCATCACCACTTCCTGATGGAGAGTCAGAAGCTTCCAGGCCTCCAAGGGTCCA
TGGACCACCTACTGAGACTCTGCCCACTCCCAGGGAGAGGAACCTAGCATCCCCATCACCTTCCACTCTGGTTGA
GGCAAGAGAGGTGGGGGAGGCAACTGGTGGTCCTGAGCTATCTGGGGTCCCTCGAGGAGAGAGCGAGGAGACAGG
AAGCTCCGAGGGTGCCCCTTCCCTGCTTCCAGCCACACGGGCCCCTGAGGGTACCAGGGAGCTGGAGGCCCCCTC
TGAAGATAATTCTGGAAGAACTGCCCCAGCAGGGACCTCAGTGCAGGCCCAGCCAGTGCTGCCCACTGACAGCGC
CAGCCGAGGTGGAGTGGCCGTGGTCCCCGCATCAGGTGACTGTGTCCCCAGCCCCTGCCACAATGGTGGGACATG
CTTGGAGGAGGAGGAAGGGGTCCGCTGCCTATGTCTGCCTGGCTATGGGGGGGACCTGTGCGATGTTGGCCTCCG
CTTCTGCAACCCCGGCTGGGACGCCTTCCAGGGCGCCTGCTACAAGCACTTTTCCACACGAAGGAGCTGGGAGGA
GGCAGAGACCCAGTGCCGGATGTACGGCGCGCATCTGGCCAGCATCAGCACACCCGAGGAACAGGACTTCATCAA
CAACCGGTACCGGGAGTACCAGTGGATCGGACTCAACGACAGGACCATCGAAGGCGACTTCTTGTGGTCGGATGG
CGTCCCCCTGCTCTATGAGAACTGGAACCCTGGGCAGCCTGACAGCTACTTCCTGTCTGGAGAGAACTGCGTGGT
CATGGTGTGGCATGATCAGGGACAATGGAGTGACGTGCCCTGCAACTACCACCTGTCCTACACCTGCAAGATGGG
GCTGGTGTCCTGTGGGCCGCCACCGGAGCTGCCCCTGGCTCAAGTGTTCGGCCGCCCACGGCTGCGCTATGAGGT
GGACACTGTGCTTCGCTACCGGTGCCGGGAAGGACTGGCCCAGCGCAATCTGCCGCTGATCCGATGCCAAGAGAA
CGGTCGTTGGGAGGCCCCCCAGATCTCCTGTGTGCCCAGAAGACCTGCCCGAGCTCTGCACCCAGAGGAGGACCC
AGAAGGACGTCAGGGGAGGCTACTGGGACGCTGGAAGGCGCTGTTGATCCCCCCTTCCAGCCCCATGCCAGGTCC
C**TAG**GGGGCAAGGCCTTGAACACTGCCGGCCACAGCACTGCCCTGTCACCCAAATTTTCCCTCACACCCTGCGCT
CCCGCCACCACAGGAAGTGACAACATGACGAGGGGTGGTACTGGAGTCCAGGTGACAGTTCCTGAAGGGGCTTCT
GGGAAATACCTAGGAGGCTCCAGCCCAGCCCAGGCCCTCTCCCCCTACCCTGGGCACCAGATCTTCCATCAGGGC
CGGAGTAAATCCCTAAGTGCCTCAACTGCCCTCTCCCTGGCAGCCATCTTGTCCCCTCTATTCCTCTAGGGAGCA
CTGTGCCCACTCTTTCTGGGTTTTCCAAGGGAATGGGCTTGCAGGATGGAGTGTCTGTAAAATCAACAGGAAATA
AAACTGTGTATGAGCCC

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FIGURE 9

TTGCCATTACCCACAGAATAAAGAAAGGGGCCCTGTTATTCAACAATAGGGGAAAAGACAGAGACAATGGGAAAT
TGTGCTTCCGATGGGGTGGGGACTGAGAAGGAAAGGACAGACAGACAGACAGACAGGGGGTTGTACAGAAGAGGT
CCGGTTTCTTGAAGCAGCTGGAAGTCCTGGATAGTTCCCACCTGAAAGTCTGTTTGCAAAGGCAATGCGCACTCA
GGCACCAGAGGGCAGAGGGGCTCAAGTTCCAGGGTTTTAAGGTGCTTGGAACTCCCAGGAGCCTGGCAAACCTTC
ATCCAGAACCTCTTCCTCAAGCAAGACAAAAAGCTGCTAAGCACTGCTCCCTCCGTCTCTGTGAAGAGACCAGCT
TCTAACAGACGGTGCCGGGCTGACCCCCCATC**ATG**CCAGGCTGGCTCACCCTCCCCACACTCTGCCGCTTCCTTC
TTTGGGCCTTCACCATCTTCCACAAAGCCCAAGGAGACCCAGCATCCCACCCGGGCCCCCACTACCTCCTGCCCC
CCATCCACGAGGTCATTCACTCTCATCGTGGGGCCACGGCCACGCTGCCCTGCGTCCTGGGCACCACGCCTCCCA
GCTACAAGGTGCGCTGGAGCAAGGTGGAGCCTGGGGAGCTCCGGGAAACGCTGATCCTCATCACCAACGGACTGC
ACGCCCGGGGGTATGGGCCCCTGGGAGGGCGCGCCAGGATGCGGAGGGGGCATCGACTAGACGCCTCCCTGGTCA
TCGCGGGCGTGCGCCTGGAGGACGAGGGCCGGTACCGCTGCGAGCTCATCAACGGCATCGAGGACGAGAGCGTGG
CGCTGACCTTGAGCTTGGAGGGTGTGGTGTTTCCGTACCAACCCAGCCGGGGCCGGTACCAGTTCAATTACTACG
AGGCGAAGCAGGCGTGCGAGGAGCAGGACGGACGCCTGGCCACCTACTCCCAGCTCTACCAGGCTTGGACCGAGG
GTCTGGACTGGTGTAACGCGGGCTGGCTGCTCGAGGGCTCCGTGCGCTACCCTGTGCTCACCGCACGCGCCCCGT
GCGGCGGCCGAGGCCGGCCCGGGATCCGCAGCTACGGACCCCGCGACCGGATGCGCGACCGCTACGACGCCTTCT
GCTTCACCTCCGCGCTGGCGGGCCAAGTGTTCTTCGTGCCCGGGCGGCTGACGCTGTCTGAAGCCCACGCGGCGT
GCCGGCGACGCGGCGCCGTGGTGGCCAAGGTTGGGCACCTCTACGCCGCCTGGAAGTTTTCGGGGCTAGACCAGT
GCGACGGCGGCTGGCTGGCTGACGGCAGTGTGCGCTTCCCAATCACCACGCCGAGGCCGCGCTGCGGGGGGCTCC
CGGATCCCGGAGTGCGCAGTTTCGGCTTCCCCAGGCCCCAACAGGCAGCCTATGGGACCTACTGCTACGCCGAGA
AT**TAG**GCGCCCACCGTGTCCCCTCCAGCGCGCGCGAAGAAGCTTGGGAGTCGTGGCGGGGGTCTCTCGCCACCCC
TTTCCGGAGAGCCTCCCCTCCCTCCAGACCCGGAGCGGCCTCTCCAGACCTGCCTTCCCAGCCGGGGGCTGCGGG
CCTCGGACCCCGGCTGGCCCGGCGGCGGGGAGGGGAGGCGGGGGCGCCTCCGGCGGCGAGATGCAGAGGTGACCC
TCGGACCCGCTGCCGTTCGCGAACCCTAGCAGAGGACTCAGCCACCGCCGGGGGGAGGGTGAGGCGGCCGGGGGC
ATTAACTGACCTCTGAGTACAGCAATAAAATAACCTGGGGATCTTT

FIGURE 10

GGCGGCGCACAAGTCAGGTCCGGCACATGTTTCCGCGGAGCGGACCCAGCAATGACGGATGATATCACCTCTTCT
TCTCTGGTGAGAGTCTGAGGATAGAGACTTTTTTCTCACCATGAATGTCACCCCAGAGGTCAAGAGTCGTGGGAT
GAAGTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGGCCTCGGCCGGAAGGAGAATGGTAT
CACTCAGGCTCTCAGGGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACCCTGCCAAGGAGTTCACAAA
CCACTGGTGGAATGAGCTCTTCAACAAGACTGCGGCCAACTTGGTAGTGGAAACTGGGCAGGATGGAGTACAGAT
AAGGAGCCTTTCTAAGGAGACCACCCGTTATAATCATCCCAAGCCCAACTTGCTGTATCAGAAGTTTGTGAAGAT
GGCTACATTGACTTCAGGTGGAGAGAAGCCAAACAAAGACTTGGAGAGCTGCAGTGATGACGACAACCAGGGGTC
CAAGTCCCCAAAGATTCTGACTGATGAGATGCTGCTCCAAGCCTGTGAGGGGCGAACAGCACACAAGGCTGCCCG
TCTTGGGATCACAATGAAGGCCAAGCTTGCTCGCCTAGAGGCCCAGGAGCAGGCCTTCCTGGCTCGTCTCAAAGG
CCAGGACCCTGGGGCCCCTCAACTGCAGTCAGAGAGCAAGCCCCCCAAAAAAAAGAAAAAGAAAAGGAGGCAGAA
AGAGGAGGAAGAAGCTACAGCATCTGAAAGGAATGATGCAGATGAGAAGCACCCAGAACATGCTGAGCAGAACAT
CAGAAAAAGCAAGAAGAAGAAAAGGCGACATCAAGAAGGAAAGGTCTCAGATGAAAGAGAGGGTACAACTAAAGG
GAATGAGAAGGAGGACGCTGCAGGAACAAGTGGGCTTGGGGAATTGAATAGCAGAGAGCAAACCAATCAGTCCCT
CAGGAAAGGGAAGAAAAAGAAGAGGTGGCACCATGAAGAGGAGAAGATGGGGGTCTTGGAGGAAGGAGGAAAAGG
CAAGGAGGCTGCAGGCAGTGTCAGGACAGAGGAGGTAGAGAGCAGGGCATATGCTGACCCATGCAGCCGAAGAAA
GAAGAGGCAGCAACAGGAGGAGGAGGACTTGAACCTAGAAGATAGAGGTGAGGAAACTTTTAGGTGGTGGAACCA
GGGAAGCAGAGAGCAGAGCATGCAGTGAATGGAAGAAGCAGGAAAAGCAAGAAGAAAAGACAGCAGCATCAAGAGG
AGGAGGACATCTTGGATGTAAGGGATGAGAAGGATGGCGGGGCTAGGGAAGCAGAGAGCAGAGCACACACTGGCT
CAAGCAGCAGAGGTAAGAGGAAGAGGCAGCAGCATCCCAAGAAGGAAAGAGCTGGAGTCAGCACTGTCCAGAAAG
CCAAAAAGAAACAGAAGAAGAGAGACTAAAGGTCTGGTAAAGGTAGGGCTCAATTGATTGATTTTCAGGAGTTGA
AGCCTCAAAGACCAGGGTTGATGCAGGTCTGCAGGTCTTCTGCACCCCCCTCAATGAGGAGTCCCTCCCAGAAAG
GAAACTGATCTCTGGGACGTCAGCTGCTGAGAGGAGCAAGCGGTAGTACCACCCCTTAGTTGAGGGAGTCAGCAC
AGTCCTTTCTGCAGCTTCTAACCCAGGACCATGAACTCAGGTGCCTAGAGAAGCCAGGCAGCTAAAGGACAAGGA
ATGCTGGGGGCTGTGGGAACAGGAATGCAGATACCCTTTGAAGGAGCATTCCTGCTAAAAGAAGCTGAAAATGTA
GACCTATGTGAAGTGCTCTGATTTCTAAATATTGTGAAGGTTAAGAAAAACATAAATTTAGGTCTATGGGCTAGA
TTTAGCCCACAGTTGCCAGTTTCTAGCGCTACCAAATGAATGAATAAACATGAGCTTGCGCTCCTAGCCTAGAGA
TAAATCCTGACTGGCATCTCTGTTCCCAGCCTGGGAAGGTCCTGAATACAAATTAGAAGATATTCCTTGGAGGCC
TTTGAAGAAATTCCTTCGGTTAACCTCTTTGTAGTCTTGCTACACTGATAAGTAGAAGTAGCTCCCTGTCTGTGT
CCCAAATGAATAAGAATTGTGTAAAGGACAGCA

FIGURE 11

ATAAGGCCTTCTCAACACCATCACCATCCCTATTCCCTTGTGGAAGCCCCCTAAGAATTTATAGCTCCAGGCAGT
GGTTTGCCAGCCCCCACCATTGCTCCTTGAGGAGCCACAGGGAGGTGTGCCATCCTGCATACTCGAACTTGGATA
GGAGATGGGCTGCTGCTGCTGGGATGTGCAGCAGCTTTGGCCTCTCTCACCCACAGCTGGCTGGTGAGCAGAACA
AGAAGAGGAAATGCTCTGGTTCATCAGGTCTTCACAGTGGACAAGTGCCAGTGACTGACAGTAAAGATGCCCCGC
TCCACCCCGACCATAGTACCTGTTCACAGTACCTTCATTTAATCAGATTAATTGAGAGTCTACTATGGGCCAAGG
AGTTGGGGATTCAGAGTGGAATAAGAATGAGATGGGCCCAGCCCAGATGGAATCTACATAGGCAATTATGATGGA
AGTGTTGCCTGTGATAGAGGAAGGGTACTCAACTCAGACTTCAGAGAATGGCTTCTAAAAGTAACTGATGTATAA
GCTGAGCTCTGGAGGATAAGAGAAACTCAGAAGGTAAAGGGGGAAAGGGAGAAGAATGTCCCAAGCAGAGGGAGC
AACATGTGCAATAACCTGAAGATGGAAGACTGTCGTACCTTCAAAGAAAAGAAACAGATTGGAATCTGTTATGCT
AATGGTTAGGCTAAAGTAGTGGTCCTGGAGAAAAGTGAAGAGATGAGGCTGGAGATGGCAGGAACAGGCATGCAG
AGCCATATAAGCCAGTCCGATAAATCTGGATTGTGTCATCCTAGGTCAAACAAGACCCAGTGACATGATGACATT
TATGTTTTAGAGAGAACACTGGATGCTTTGTGGAGAAGTCCATCCTCCACAAAGGTTGGGGTGGGGAGTGAGACT
ACAGGTGTTCTTAGGAGGCTGCTGGAGAAAGAAATTAGGCAAGAGATGATGATGGCCCGAAGTGGGGTAGTAGAT
GGTAACAGAGATGTAGAGAAATGGGAAAGATTTGCTAGGTAACATGTATAGCCCTTAGCACATAATGACCATTAC
ATGTTAGCTTCCTCCTATTGGTACAGTAGAAAGTGGAGGCCTGAAGTCCTGGGTTCCAGTCCTGTTTGCCATTAC
TAGCCAGCTGTGGGCTCTTCAGCAAACCACTTTTCACCCTTTTAGCCACATCTGCAAAGCAGGGATGGTCCAGAT
AATCTCTCAGGTCTCCTCTGGCTTCTAAGTCCTTTGAATTAGATGTCCCCTGGCCCCCCCAAAATTTGGCAGCTC
CTGACTTAAGAGACTGTACCCTACCTCCCACGCCCTATTGCTGCTCCCTTAACAGATGGCAGGATCCACGGAACC
TGAAGATCTCAATTCCTGCTGAGGGTCTGGGCAGTCTAAGTAAGCAACAGCAAGGCTGGTCACAGGATCCCACTA
TGTTAGGAAAGTTCTGAGAATTGATAAGGCATACAAGGCAACTGTTCAGGCCCCAGGGAAACCAGGGAAGAGAAA
AAGGATGGACTCTGTTACCCACAGCCTCTAATACCTTCACAAACTTCTGATACAGCAAGTTGGGCTTGGGATGAT
TATAACGGGTGGTCTCCTTAGAAAGGCTCCTTATCTGTACTCCATCCTGTAGAGAATTATCAGTACCAGTGAATG
GGTGACATATCATGACTGCCTACGCCACAGGTCCCAGGCCCTCTGTTTCATGTGCCCATCTATCAAGAGCTCATA
CCTGCCCAGTTTCCACTACCAAGTTGGCCGCAGTCTTGTTGAAGAGCTCATTCCACCAGTGGTTTGTGAACTCCT
TGGCAGGGTCATGTCCTACCTGCCAGGGGAATAAATATGAGCTCTGAGTGCCTGCCTCACCTGCCCTCAAGGGTC
CCCTCTCCCACACATGCTAACCTTCCTCAGTCCACCCAGTCTTACCCCATGAGTGTCTTGCTTCAGTGTCACCCT
GAGAGCCTGAGTGATACCATTCTCCTTCCGGCCGAGGCCTTTGCCTGCAGAGGACAGTGAGCGATTTGGCTTATT
CTCCTGCCTGCTGTGAGACCTCACAAGGCACCCCCCACACAGGCCTCTTGCCATTCCACACACCTGACATTGGGG
TATACTCTGTACCTCTCAGAAGACCTCCTAGCGCACTTCTTTCTAGTACCACTCCATATAGTCCCCTGCCTTTGT
GTGAGCCTGAACTATCTCTTCCTTCAAATTCTTTTGGTAGAGAGCCCATATCTCTTTTTCCCTCCCCTAGTCCTC
CCAACCACCACTTCTTCATTATCCACTGTCAAATTTCTTCCTTTCTTCCCTTTTCTGGGAAAGTTAGAAATTTTC
TTCTGCAAATTTCCCTTTAAACTAGCTTTTCCTCCTTTAATTAAATGGACTACATGGGGGGGTAATCCAGGATGA
TGGCTTTCCCCTGGGCAGATGGTAGGCAGGGAGCTGGGGGATGTGGAAGAGGCCCCATGGGGATCACCTTGAGTC
CATCCATGCTTTAGCAGCTGCTCCTCAGCAAACTTCATCCCACGACTCTTGACCTCTGGGGTGACATTCATGGTG
AGAAAAAAGTCTCTATCCTCAGACTCTCACCAGAGAAGAAGAGGTGATATCATCCTTTTAAGAAGAAAGTAGAAA
GTGCCCAAACAGCCATCAGTTCCATCCTGACTGCTTGTTAAGAATTCTCTGCTAGTTGGGTGCAGTGGCACACAC
CTGTAGTCCCAGCTACATGGGAGGCTGAGGCGGGATTGCTTGAGTCCAGCCTGGGCAGTATAGCAAGACCCTCTC
TCATAAAAAGAATAAAGCGGCCAGGCACAGTGGTTCACATTTGTAATCCCAGCACTTTGGAAGGCCAAGGTAGAA
GAATCACTTGAGCCCAGGAGTTCCAGACCAGTGTGGGCAACGTAGTGAAACCCTGCCTCTAGAAAAAATAAAAAA
TTAAAAAG

FIGURE 12

GGGCCGGGGGCGCGCGCTCTGCGAGCTGG**ATG**TCCAGGCTGCGGGCGCTGCTGGGCCTCGGGCTGCTGGTTGCGG
GCTCGCGCGTGCCGCGGATCAAAAGCCAGACCATCGCCTGTCGCTCGGGACCCACCTGGTGGGGACCGCAGCGGC
TGAACTCGGGTGGCCGCTGGGACTCAGAGGTCATGGCGAGCACGGTGGTGAAGTACCTGAGCCAGGAGGAGGCCC
AGGCCGTGGACCAGGAGCTATTTAACGAATACCAGTTCAGCGTGGACCAACTTATGGAACTGGCCGGGCTGAGCT
GTGCTACAGCCATCGCCAAGGCATATCCCCCCACGTCCATGTCCAGGAGCCCCCCTACTGTCCTGGTCATCTGTG
GCCCGGGGAATAATGGAGGAGATGGTCTGGTCTGTGCTCGACACCTCAAACTCTTTGGCTACGAGCCAACCATCT
ATTACCCCAAAAGGCCTAACAAGCCCCTCTTCACTGCATTGGTGACCCAGTGTCAGAAAATGGACATCCCTTTCC
TTGGGGAAATGCCCGCAGAGCCCATGACGATTGATGAACTGTATGAGCTGGTGGTGGATGCCATCTTTGGCTTCA
GCTTCAAGGGCGATGTTCGGGAACCGTTCCACAGCATCCTGAGTGTCCTGAAGGGACTCACTGTGCCCATTGCCA
GCATCGACATTCCCTCAGGATGGGACGTGGAGAAGGGAAATGCTGGAGGGATCCAGCCAGACTTGCTCATATCCC
TCACAGCCCCCAAAAAATCTGCAACCCAGTTTACCGGTCGCTACCATTACCTGGGGGGTCGTTTTGTGCCACCTG
CTCTGGAGAAGAAGTACCAGCTGAACCTGCCACCCTACCCTGACACCGAGTGTGTCTATCGTCTGCAG**TGA**GGGA
AGGTGGGTGGGTATTCTTCCCAATAAAGACTTAGAGCCCCTCTCTTCCAGAACTGTGGATTCCTGGGAGCTCCTC
TGGCAATAAAAGTCAGTGAATGGTGGAAGTCAGAGACCAACCCTGGGGATTGGGTGCCATCTCTCTAGGGGTAAC
ACAAAGGGCAAGAGGTTGCTATGGTATTTGGAAACAATGAAAATGGACTGTTAGATGCC

FIGURE 13

CAGGGGCGAGGGCTACCCGCTCTTTGCCGTGACAACACCGTTCCCCCAGCCGGGCTGGAGGCTGTGCAGAAGGTA
TCCTGCAGACCATGAACTGAGCACTGTTCCCAGACCGTTCATGAGCACAGTGTAAGGTGTGCCGAGACCCACCAC
CCAGCGAGCCCCTCCCCTCCGTAGCACTGAGGACCCCCGGAGAAGATGGGGAGGAAAAAGATTCAGATCCAGCGA
ATCACCGACGAGCGGAACCGACAGGTGACTTTCACCAAGCGGAAGTTTGGCCTGATGAAGAAGGCGTATGAGCTG
AGCGTGCTATGTGACTGCGAGATCGCACTCATCATCTTCAACCACTCCAACAAGCTGTTCCAGTACGCCAGCACC
GACATGGACAAGGTGCTGCTCAAGTACACGGAGTACAATGAGCCACACGAGAGCCGCACCAACGCCGACATCATC
GAGACCCTGAGGAAGAAGGGCTTCAACGGCTGCGACAGCCCCGAGCCCGACGGGGAGGACTCGCTGGAACAGAGC
CCCCTGCTGGAGGACAAGTACCGACGCGCCAGCGAGGAGCTCGACGGGCTCTTCCGGCGCTATGGGTCAACTGTC
CCGGCCCCCAACTTTGCCATGCCTGTCACGGTGCCCGTGTCCAATCAGAGCTCACTGCAGTTCAGCAATCCCAGC
GGCTCCCTGGTCACCCCTTCCCTGGTGACATCATCCCTCACGGACCCGCGGCTCCTGTCCCCCCAGCAGCCAGCA
CTACAGAGGAACAGTGTGTCTCCTGGCCTGCCCCAGCGGCCAGCTAGTGCGGGGGCCATGCTGGGGGGTGACCTG
AACAGTGCTAACGGAGCCTGCCCCAGCCCTGTTGGGAATGGCTACGTCAGTGCTCGGGCTTCCCCTGGCCTCCTC
CCTGTGGCCAATGGCAACAGCCTAAACAAGGTCATCCCTGCCAAGTCTCCACCCCCACCTACCCACAGCACCCAG
CTTGGAGCCCCCAGCCGCAAGCCCGACCTGCGAGTCATCACTTCCCAGGCAGGAAAGGGGTTAATGCATCACTTG
ACTGAGGACCATTTAGATCTGAACAATGCCCAGCGCCTTGGGGTCTCCCAGTCTACTCATTCGCTCACCACCCCA
GTGGTTTCTGTGGCAACGCCGAGTTTACTCAGCCAGGGCCTCCCCTTCTCTTCCATGCCCACTGCCTACAACACA
GATTACCAGTTGACCAGTGCAGAGCTCTCCTCCTTACCAGCCTTTAGTTCACCTGGGGGGCTGTCGCTAGGCAAT
GTCACTGCCTGGCAACAGCCACAGCAGCCCCAGCAGCCGCAGCAGCCACAGCCTCCACAGCAGCAGCCACCGCAG
CCACAGCAGCCACAGCCACAGCAGCCTCAGCAGCCGCAACAGCCACCTCAGCAACAGTCCCACCTGGTCCCTGTA
TCTCTCAGCAACCTCATCCCGGGCAGCCCCCTGCCCCACGTGGGTGCTGCCCTCACAGTCACCACCCACCCCCAC
ATCAGCATCAAGTCAGAACCGGTGTCCCCAAGCCGTGAGCGCAGCCCTGCGCCTCCCCCTCCAGCTGTGTTCCCA
GCTGCCCGCCCTGAGCCTGGCGATGGTCTCAGCAGCCCAGCCGGGGGATCCTATGAGACGGGAGACCGGGATGAC
GGACGGGGGGACTTCGGGCCCACACTGGGCCTGCTGCGCCCAGCCCCAGAGCCTGAGGCTGAGGGCTCAGCTGTG
AAGAGGATGCGGCTTGATACCTGGACATTAAAGTGACGATTCCCACTCCCCTCCTCTCAGCCTCCCTGATGAAGA
GTTGACAATCTCACCGCCCGCCCTTCCCTGCCCCGGGCTCCTCCCGCTCGACCCCCACTTCCTTTCTTGTGCTTC
GTGTCCTGTTGACGGTTACATTTGTGTATAATTATTATATTATT

FIGURE 14

CTCCTCACAGAAGCCTGGAGCTGGGCATCCAAGAAGAAGCAGCCTCATTTGTTTTCTGGTGTCATCGTAGGTGGC
CACCTATGGCTTTTGGGAATGTAAAAAGGGCAGCTCTCTGGCATGTTCCTGACTGAGGATCTCATAACATTTAAC
TTGAGGAACTTCCTCCTTTTCCAGCTTTGGGAGTCAAGCTTCTCACCTGGGGCGGGTGGGTTCTGCACCACCCTC
CCACCCTCCTTCCTCCGTGTGGACGATAGAGCCACATCCAGCACCACGGACAGCTCCCGGGCGCCTTCATCTCCT
CGTCCTCCAGGCAGCACAAGCCATTGTGGAATCTCCACCAGGTGTACAGAACGGTGCCTCTGCGTCCTGCCACTC
AGGACCTCTCAAGTCCCCGATGTGATGGCTCCTCAGCATGATCAGGAGAAATTCCATGATCTTGCTTATTCCTGT
CTTGGGAAGTCCTTCTCCATGTCTAACCAAGATCTATATGGCTATAGCACCAGCTCTTTGGCTCTTGGCTTGGCA
TGGCTAAGTTGGGAGACCAAAAAGAAGAATGTACTTCATCTGGTTGGGCTGGATTCCCTCTGATAAGCCTTCCCA
GTTGACTGAAAGATGAGGCTAGGCTCTAGCAAGTTGAAGTCAAACCAGCTCCTTCAAGAAGCTTTGAGCAGAATG
AAGTGGGGAGGACCCAGCTTCCAGCCCAGGAAGCCCACTGTACCTGGAGCCATCTGGGATAAGACTTTGACCCAT
GACTCCCATATCCACAGCCTGTCCATCCTAGCCCATCCCAGTTTATCCTGTATCATTTGAGCTGGGATTCCCACA
TCCTCTGAGTTGGAAGTCCCATCTCAAGTCTTCAATAAAGACTCTTGAATATTG

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FIGURE 15

CAGGCGCCAAGGCTCTGGCAGTTGGCCAGCACACCACTACGCATGTGTGTCAACTCTAGGGTTGGGTGCTGGGGT
TGCGGCTTTCGGTTAACACCGCAGATTGGAACAGGCTGAGATCTGCTGGAGACAACTTAGGAAATTATCATAGTG
AAAATACTAACATGGATTGTTGATCATCTGATGCTATGATTCTTTCCCAGGCACCACACCTGTTGGTGTTCAGAT
GGAGCGGCACACTAGTCATCCTAACAGAAAAGTTCCAGCCAAAGAGGAAGCTAATGCTGTGCCTCTCTGTAGAGC
AAAACCCTCCCCCAGCTATATTAATCTTCAAGCAAGTTCCCCACCAGCCACTTTTCTGAACATCCAGACAACAAA
GCTGCCCTCGGTTGATCACAAGCCCAAGGAATGCCTAGGACTCCTGGAATGTATGTATGCAAACCTCCAGCTTCA
GACCCAGCTCGCCCAACAACAGATGGCTGTTTTGGAACATTTACAGGCATCTGTGACACAACTGGCTCCTGGGAG
GGGAAGCAATAACTCTTCTCTCCCAGCCTTATCTCCTAATCCATTGTTAAATCACCTGCCCCAATTCAGTAAATG
AATTGTGGAAC

FIGURE 16

TTGCGTAGGGGGCGGGACTAAGGCTGTCAATTGGTCTGTTTTTGTGCCGATCAATGAGATGGGTGCGGTGATTGG
CGACTACCTTGAGAGTAGCGGGTTGAGGTGTAAGCCCTGAGGAGGCAGCGTTTTCTGGGCTTCTGTCTGGTTCTC
TCTCTCCAGAAGGTTCTGCCGGTTCCCCCAGCTCTGGGTACCCGGCTCTGCATCGCGTCGCCATG**ATG**GGCCATC
GTCCAGTGCTCGTGCTCAGCCAGAACACAAAGCGTGAATCCGGAAGAAAAGTTCAATCTGGAAACATCAATGCTG
CCAAGACTATTGCAGATATCATCCGAACATGTTTGGGACCCAAGTCCATGATGAAGATGCTTTTGGACCCAATGG
GAGGCATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCAGCGGCCAAGTCCA
TGATCGAAATTAGCCGGACCCAGGATGAAGAGGTTGGAGATGGGACCACATCAGTAATTATTCTTGCAGGGGAAA
TGCTGTCTGTAGCTGAGCACTTCCTGGAGCAGCAGATGCACCCAACAGTGGTGATCAGTGCTTACCGCAAGGCAT
TGGATGATATGATCAGCACCCTAAAGAAAATAAGTATCCCAGTCGACATCAGTGACAGTGATATGATGCTGAACA
TCATCAACAGCTCTATTACTACCAAAGCCATCAGTCGGTGGTCATCTTTGGCTTGCAACATTGCCCTGGATGCTG
TCAAGATGGTACAGTTTGAGGAGAATGGTCGGAAAGAGATTGACATAAAAAAATATGCAAGAGTGGAAAAGATAC
CTGGAGGCATCATTGAAGACTCCTGTGTCTTGCGTGGAGTCATGATTAACAAGGATGTGACCCATCCACGTATGC
GGCGCTATATCAAGAACCCTCGCATTGTGCTGCTGGATTCTTCTCTGGAATACAAGAAAGGAGAAAGCCAGACTG
ACATTGAGATTACACGAGAGGAGGACTTCACCCGAATTCTCCAGATGGAGGAAGAGTACATCCAGCAGCTCTGTG
AGGACATTATCCAACTGAAGCCCGATGTGGTCATCACTGAAAAGGGCATCTCAGATTTAGCTCAGCACTACCTTA
TGCGGGCCAATATCACAGCCATCCGCAGAGTCCGGAAGACAGACAATAATCGCATTGCTAGAGCCTGTGGGGCCC
GGATAGTCAGCCGACCAGAGGAACTGAGAGAAGATGATGTTGGAACAGGAGCAGGCCTGTTGGAAATCAAGAAAA
TTGGAGATGAATACTTTACTTTCATCACTGACTGCAAAGACCCCAAGGCCTGCACCATTCTCCTCCGGGGGGCTA
GCAAAGAGATTCTCTCGGAAGTAGAACGCAACCTCCAGGATGCCATGCAAGTGTGTCGCAATGTTCTCCTGGACC
CTCAGCTGGTGCCAGGGGGTGGGGCCTCCGAGATGGCTGTGGCCCATGCCTTGACAGAAAAATCCAAGGCCATGA
CTGGTGTGGAACAATGGCCATACAGGGCTGTTGCCCAGGCCCTAGAGGTCATTCCTCGTACCCTGATCCAGAACT
GTGGGGCCAGCACCATCCGTCTACTTACCTCCCTTCGGGCCAAGCACACCCAGGAGAACTGTGAGACCTGGGGTG
TAAATGGTGAGACGGGTACTTTGGTGGACATGAAGGAACTGGGCATATGGGAGCCATTGGCTGTGAAGCTGCAGA
CTTATAAGACAGCAGTGGAGACGGCAGTTCTGCTACTGCGAATTGATGACATCGTTTCAGGCCACAAAAAGAAAG
GCGATGACCAGAGCCGGCAAGGCGGGGCTCCTGATGCTGGCCAGGAG**TGA**GTGCTAGGCAAGGCTACTTCAATGC
ACAGAACCAGCAGAGTCTCCCCTTTTCCTGAGCCAGAGTGCCAGGAACACTGTGGACGTCTTTGTTCAGAAGGGA
TCAGGTTGGGGGGCAGCCCCCAGTCCCTTTCTGTCCCAGCTCAGTTTTCCAAAAGACACTGACATGTAATTCTTC
TCTATTGTAAGGTTTCCATTTAGTTTGCTTCCGATGATTAAATCTAAGTCATTTG

FIGURE 17

GAATTGCGGCCGT**ATG**CGCGGCTCTGTGGAGTGCACCTGGGGTTGGGGGCACTGTGCCCCCAGCCCCCTGCTCCT
TTGGACTCTACTTCTGTTTGCAGCCCCATTTGGCCTGCTGGGGGAGAAGACCCGCCAGGTGTCTCTGGAGGTCAT
CCCTAACTGGCTGGGCCCCCTGCAGAACCTGCTTCATATACGGGCAGTGGGCACCAATTCCACACTGCACTATGT
GTGGAGCAGCCTGGGGCCTCTGGCAGTGGTAATGGTGGCCACCAACACCCCCCACAGCACCCTGAGCGTCAACTG
GAGCCTCCTGCTATCCCCTGAGCCCGATGGGGGCCTGATGGTGCTCCCTAAGGACAGCATTCAGTTTTCTTCTGC
CCTTGTTTTTACCAGGCTGCTTGAGTTTGACAGCACCAACGTGTCCGATACGGCAGCAAAGCCTTTGGGAAGACC
ATATCCTCCATACTCCTTGGCCGATTTCTCTTGGAACAACATCACTGATTCATTGGATCCTGCCACCCTGAGTGC
CACATTTCAAGGCCACCCCATGAACGACCCTACCAGGACTTTTGCCAATGGCAGCCTGGCCTTCAGGGTCCAGGC
CTTTTCCAGGTCCAGCCGACCAGCCCAACCCCCTCGCCTCCTGCACACAGCAGACACCTGTCAGCTAGAGGTGGC
CCTGATTGGAGCCTCTCCCCGGGGAAACCGTTCCCTGTTTGGGCTGGAGGTAGCCACATTGGGCCAGGGCCCTGA
CTGCCCCTCAATGCAGGAGCAGCACTCCATCGACGATGAATATGCACCGGCCGTCTTCCAGTTGGACCAGCTACT
GTGGGGCTCCCTCCCATCAGGCTTTGCACAGTGGCGACCAGTGGCTTACTCCCAGAAGCCGGGGGGCCGAGAATC
AGCCCTGCCCTGCCAAGCTTCCCCTCTTCATCCTGCCTTAGCATACTCTCTTCCCCAGTCACCCATTGTCCGAGC
CTTCTTTGGGTCCCAGAATAACTTCTGTGCCTTCAATCTGACGTTCGGGGCTTCCACAGGCCCTGGCTATTGGGA
CCAACACTACCTCAGCTGGTCGATGCTCCTGGGTGTGGGCTTCCCTCCAGTGGACGGCTTGTCCCCACTAGTCCT
GGGCATCATGGCAGTGGCCCTGGGTGCCCCAGGGCTCATGCTGCTAGGGGGCGGCTTGGTTCTGCTGCTGCACCA
CAAGAAGTACTCAGAGTACCAGTCCATAAAT**TAA**GGCCCGCTCTCTGGAGGGAAGGACATTACTGAACCTGTCTT
GCTGTGCCTCGAAACTCTGGAGGTTGGAGCATCAAGTTCCAGCCGGCCCCTTCACTCCCCCATCTTGCTTTTCTG
TGGAACCTCAGAGGCCAGCCTCGACTTCCTGGAGACCCCCAGGTGGGGCTTCCTTCATACTTTGTTGGGGGACTT
TGGAGGCGGGCAGGGGACAGGGCTATTGATAAGGTCCCCTTGGTGTTGCCTTCTTGCATCTCCACACATTTCCCT
TGGATGGGACTTGCAGGCCTAAATGAGAGGCATTCTGACTGGTTGGCTGCCCTGGAAGGCAAGAAAATAGATTTA
TTTTTTTTC

FIGURE 18

GGCAGCATGGCGTCTTTCCGGCTTCTCCAAACCCTTGCGAAAAACTTTATTGGCAAAGCTATCAGAGAACGGACA
GTGTACCCACTGAGGCGGCCAAAGCTTAACTGGATCAGGGCAGGATGACATGACCTTGTGGTAGATCCCAGAACT
GAGGCCCCAGGATGACAGAACAGGAGACCCTGGCCCTACTGGAAGTGAAGAGGTCTGATTCCCCAGAGAAGAGCT
CACCCCAGGCCTTGGTTCCCAATGGCCGGCAGCCAGAAGGGGAAGGTGGGGCCGAATCCCCGGGAGCTGAGTCCC
TCAGAGTGGGGTCTTCAGCTGGATCTCCCACAGCCATAGAGGGGGCTGAGGATGGTCTAGACAGCACAGTAAGTG
AGGCTGCCACCTTGCCCTGGGGGACTGGCCCTCAGCCCAGTGCTCCGTTCCCGGATCCCCCTGGCTGGCGGGACA
TTGAACCAGAGCCCCCTGAGTCAGAACCACTTACCAAGCTAGAGGAGCTGCCCGAAGACGATGCCAACCTGCTGC
CTGAGAAAGCGGCCCGTGCCTTCGTGCCTATTGACCTACAGTGCATTGAGCGGCAGCCCCAAGAAGACCTTATCG
TGCGCTGTGAGGCAGGCGAGGGCGAGTGCCGAACCTTCATGCCCCCCCGGGTCACCCACCCCGACCCCACTGAGC
GCAAGTGGGCTGAGGCAGTGGTGAGGCCGCCTGGCTGTTCCTGTGGGGGCTGCGGGAGCTGTGGAGACCGTGAGT
GGCTAAGGGCTGTGGCCTCCGTGGGAGCCGCACTCATTCTCTTCCCTTGCCTACTATACGGGGCATATGCCTTCC
TGCCGTTTGATGTCCCACGGCTGCCCACCATGAGTTCCCGCCTGATCTACACACTGCGCTGCGGGGTCTTTGCCA
CCTTCCCCATTGTGCTGGGGATCCTGGTGTACGGGCTGAGCCTGTTATGCTTTTCTGCCCTTCGGCCCTTTGGGG
AGCCACGGCGGGAGGTGGAGATCCACCGGCGATATGTGGCCCAGTCGGTCCAGCTCTTTATTCTCTACTTCTTCA
ACCTGGCCGTGCTTTCCACTTACCTGCCCCAGGATACCCTCAAACTGCTCCCTCTGCTCACTGGTCTCTTTGCCG
TCTCCCGGCTGATCTACTGGCTGACCTTTGCCGTGGGCCGCTCCTTCCGAGGCTTCGGCTACGGCCTGACGTTTC
TGCCACTGCTGTCGATGCTGATGTGGAACCTCTACTACATGTTCGTGGTGGAGCCGGAGCGCATGCTCACTGCCA
CCGAGAGCCGCCTGGACTACCCGGACCACGCCCGCTCGGCCTCCGACTACAGGCCCCGCCCCTGGGGCTGAGCCT
CTCCGCCCTCGCCCTCGGAGTAGGGGGTAGCGGCTTGGGTCTGACACATCTTTGAACCTTGTGGCCAGGCCTGGA
CTTCGCCCCCAGGCCTAGGACCGCGGTGGGTGGAACCCTGCTACTGCCCCAACAGGGACTCCAATCAATCGGAGT
TCTCCCCTTGCCGGAGCTGCCCTTCACCTTTGGGGCCCGAGACAGTCATAAGGGATGGACTTAGTTTTCTTGCAG
GGAAAAAGGTGGACAGCCGTGTTTCTTAAGGATGCTGAGGGCATGGGGCCAGGACCAGGGGAGAGGCACAGCTCC
TTCCTGAGCAGCCTCTCACCACTGCCACAAGGCTCCCTAATGCTGGTCTCTGCTCCACTCCCCGGCTTCCCGTGA
GGCAGGAGGCAGAGCCACAGCCAAGGCCCTGACCACTTCTGTGCCAGTTGTCTAAGCAGAGCGCCTCAGGGACGC
TGGAAATGCCTTAAGGATAGAGGCTGGGCATCACATCAAATGGGACTGTGGTGTTTGGTGAAAACCTTCCTGAGG
ATCTGGATTCAGGACCCTCCATGACTGGCCTATTTACTGTTTACAGCTGGCCAGTGCAGAGCTGCTGCTCTTTTA
CCTTTTTAGGCCCCTGTAACTTCCCACCTTTAAACTGCCCAGAAGGCATGCCTCTCCCACAGGAAGAGGGGAGCA
GACAGGGAAATCTGCCTACCAAGAGGGGTGTGTGTGTCTTTGTGCCCACACGTGGTGGCTGGGGAGTGCCTGGAT
GGTGCGGTGGTTGATGTTAACCTAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAACAA
TAAATTACTACCAGTC

FIGURE 19A

GTCGCGGGCAGCCGCCTCACAGCGATGGCGGCCGAGCAGGGCCGGTGGCGGCGGCGGCTGCGGCTACGGCCGGAG
ACGGCAGTGTTGGCGGTAGTGGTGGGTGGCAGGGGCCTGTGACCGGGAGCTGCCCCCGGACCCGGGCACCATGAG
CCAAGGCCCCCCCACAGGGGAGAGCAGCGAGCCCGAAGCAAAAGTCCTCCACACTAAGCGGCTTTACCGGGCTGT
GGTGGAGGCTGTGCATCGACTTGACCTCATCCTTTGCAACAAAACTGCTTATCAAGAAGTATTCAAACCAGAAAA
CATTAGCCTGAGGAACAAGCTGCGTGAGCTCTGCGTCAAGCTTATGTTCCTGCACCCAGTGGACTATGGGAGAAA
GGCTGAGGAGCTGCTGTGGAGAAAGGTATACTATGAAGTTATCCAGCTTATCAAGACTAACAAAAAGCACATCCA
CAGCCGGAGCACTTTGGAATGTGCCTACAGGACGCACCTGGTTGCTGGTATTGGCTTCTACCAGCATCTCCTTCT
CTATATCCAGTCCCACTACCAGCTGGAACTGCAGTGCTGCATCGACTGGACCCATGTCACTGACCCCCTCATAGG
ATGCAAGAAGCCAGTGTCTGCCTCAGGGAAGGAGATGGATTGGGCACAGATGGCATGTCACCGATGTCTGGTGTA
TCTGGGGGATTTGTCCCGATATCAGAATGAATTAGCTGGCGTAGATACCGAGCTGCTAGCCGAGAGATTTTACTA
CCAAGCCCTGTCAGTAGCTCCTCAGATTGGAATGCCCTTCAATCAGCTGGGCACCCTGGCAGGCAGCAAGTACTA
TAATGTGGAAGCCATGTATTGCTACCTGCGCTGCATCCAGTCAGAAGTGTCCTTTGAGGGAGCCTATGGGAACCT
CAAGCGGCTGTATGACAAGGCAGCCAAAATGTACCACCAACTGAAGAAGTGTGAGACTCGGAAACTGTCTCCTGG
CAAAAAGCGATGTAAAGACATTAAAAGGTTGCTAGTGAACTTTATGTATCTGCAAAGCCTCCTACAGCCCAAAAG
CAGCTCCGTGGACTCAGAGCTGACCTCACTTTGCCAGTCAGTCCTGGAGGACTTCAACCTCTGCCTCTTCTACCT
GCCCTCCTCACCCAACCTCAGCCTGGCCAGTGAGGATGAGGAGGAGTATGAGAGTGGATATGCTTTCCTCCCGGA
CCTTCTCATCTTTCAAATGGTCATCATCTGCCTTATGTGTGTGCACAGCTTGGAGAGAGCAGGATCCAAGCAGTA
CAGTGCAGCCATTGCCTTCACCCTGGCCCTCTTTTCCCACCTCGTCAATCATGTCAACATACGGCTGCAGGCTGA
GCTGGAAGAGGGCGAGAATCCCGTCCCGGCATTCCAGAGTGATGGCACAGATGAACCAGAGTCCAAGGAACCTGT
GGAGAAAGAGGAGGAGCCAGATCCTGAGCCTCCTCCTGTAACACCCCAAGTGGGTGAGGGCAGAAAGAGCCGTAA
GTTCTCTCGCCTCTCCTGTCTCCGCCGTCGCCGCCACCCACCCAAAGTTGGTGATGACAGTGACCTGAGTGAAGG
CTTTGAATCGGACTCAAGCCATGACTCAGCCCGGGCCAGTGAGGGCTCAGACAGTGGCTCTGACAAGAGTCTTGA
AGGTGGGGGAACGGCCTTTGATGCTGAAACAGACTCGGAAATGAATAGCCAGGAGTCCCGATCAGACTTGGAAGA
TATGGAGGAAGAGGAGGGGACACGGTCACCAACCCTGGAGCCCCCTCGGGGCAGATCAGAGGCTCCCGATTCCCT
CAATGGCCCACTGGGCCCCAGTGAGGCTAGCATTGCCAGCAATCTACAAGCCATGTCCACCCAGATGTTCCAGAC
TAAGCGCTGCTTCCGACTGGCCCCCACCTTTAGCAACCTGCTCCTCCAGCCCACCACCAACCCTCATACCTCGGC
CAGCCACAGGCCTTGCGTCAATGGGGATGTAGACAAGCCTTCAGAGCCAGCCTCTGAGGAGGGCTCTGAGTCGGA
GGGGAGTGAGTCCAGTGGACGCTCCTGTCGGAATGAGCGCAGCATCCAGGAGAAGCTTCAGGTCCTGATGGCCGA
AGGTCTGCTTCCTGCTGTGAAAGTCTTCCTGGACTGGCTTCGGACCAACCCCGACCTCATCATCGTGTGTGCGCA
GAGCTCTCAAAGTCTGTGGAACCGCCTGTCTGTGTTGCTGAATCTGTTGCCTGCTGCTGGTGAACTCCAGGAGTC
TGGCCTGGCCTTGTGTCCTGAGGTCCAAGATCTTCTTGAAGGTTGTGAACTGCCTGACCTCCCCTCTAGCCTTCT
GCTCCCAGAGGACATGGCTCTTCGTAACCTGCCCCCGCTCCGAGCTGCCCACAGACGCTTTAACTTTGACACGGA
TCGGCCCCTGCTCAGCACCTTAGAGGAGTCAGTGGTGCGCATCTGCTGCATCCGCAGCTTTGGTCATTTCATCGC
CCGCCTGCAAGGCAGCATCCTGCAGTTCAACCCAGAGGTTGGCATCTTCGTCAGCATTGCCCAGTCTGAGCAGGA
GAGCCTGCTGCAGCAGGCCCAGGCACAGTTCCGAATGGCACAGGAGGAAGCTCGTCGGAACAGGCTCATGAGAGA
CATGGCTCAGCTACGACTTCAGCTCGAAGTGTCTCAGCTGGAGGGCAGCCTGCAGCAGCCCAAGGCCCAGTCAGC
CATGTCTCCCTACCTCGTCCCTGACACCCAGGCCCTCTGCCACCATCTCCCTGTCATCCGCCAACTGGCCACCAG
TGGCCGCTTCATTGTCATCATCCCAAGGACAGTGATCGATGGCCTGGATTTGCTGAAGAAGGAACACCCAGGGGC
CCGGGATGGGATTCGGTACCTGGAGGCAGAGTTTAAAAAAGGAAACAGGTACATTCGCTGCCAGAAAGAGGTGGG
AAAGAGCTTTGAGCGGCATAAGCTGAAGAGGCAGGATGCAGATGCCTGGACTCTCTATAAGATCCTAGACAGCTG
CAAACAGCTGACTCTGGCCCAGGGGGCAGGTGAGGAGGATCCGAGTGGCATGGTGACCATCATCACAGGCCTTCC
ACTGGACAACCCCAGCGTGCTTTCAGGCCCCATGCAGGCAGCCCTGCAGGCCGCTGCCCACGCCAGTGTGGACAT
CAAGAATGTTCTGGACTTCTACAAGCAGTGGAAGGAAATTGGTTGATACTGACCCCCAGGCCCTGCAGTGGGGCT
GACTCCAGATCTCTCCTGCCCTCCCTGGCAGCCAGGACCAGCACCTGTAGTCACCCCACCACACGCAGACTCATG
CACGCACACAGGAGGGAGGCCTAGCTGCTCAGAGGCTGCAGGGAGGGCCCAGGAGCCGGCTGGGAGGGTGGGGTC
CCTTTGTTGCCAAGACGTTAGGAAAGCGAGGAAAGTGCTTGGATTAGGAGAGTCTTGTGGGCCCCTGGCCAGCCT
TCCTGCCTCAGCTCCCCTGCTGTCTCCAGGGGCAGGTGGTAGGCATGGGTACCTGCATTTCACTGGAATGGGTTC
TTGGATCTCTGAGGGGAAGGAACAGCAAAAGAGGCCCTTCTTCCTCACCCAAGATGCAGGGTGGTTGGGGCCAGG

FIGURE 19B

AGTTTGGACCCTCTAGGTCTTGGGGGAAGAGCTGGGTAATACCTGGTGTCTGAGTGATTCTCTGCAGACCCTTCC
CCTCCTCAAGGATCACCCATCCTCCTTTCAGCCCCCTTTATGGGGACCAGGCAGCTCTGGAGCCAGCCACAGGGG
CTGTTAGAGAAGCAAGGCCTGGAGTGGCCTGCACCGAGTAGCAGGGTCAGGGTTCGTGTGCTCCTCCTCCTGCTG
CAGGGGCTGCACATCCCATTGCCCCACTTCTGCTTTGTGTCTCCCTCTGTCTAGCTTCCAGGGCAGGGAGCAGGC
CCCACCTAGGGCTGCAGGCAGTCTGGCCTGTGCCAGCACGGTCTCCTGTGCCCACCAGCCCCACAGGTGCTGTGC
TTTGTGCTCTTGGCTGCTGTGCTGGGACAGAATGGGATGCCAGGAAGAGAAGAAAGGGGGTGCAGTCTGAGGCCA
CCACCCCCCTTCCTATCTAAGGGAGGGCTGAAGACAAGGGGCCGGCATTCAGTGGGCAGCAGAAAGGAGAGGCTC
CTTGAAGCTGCTCAGTCAGAGGCCCCCGTCCCTCCTTTTGCCTTCCGCAGGACTGAAGACCTGAAGGGGCTGGCT
TTTGGAGTGTTGAGGTGAATATCTGGGAGCAGAGATCATGAATAGCTCAGGGCAGTGAATGGCGCACCAAGAGCA
GGGCTGTGTGTGGGAGGCTGCAGCCAGGATTGCCTCAGCTCCTCCCCCTCAGGCTGGGAGGATAGCACAGGCTAG
GGGCTCGGGGTGGAGGGTCTCAGCTCTGCTGCCCCCACCCCAGTACTAGCCTAGCTTCCCAAGCTGTGGCTTAGA
GGATAGTTGGCTTCCTGCCTCTCTCCTCTAAAATAGCAAGTCTGGGAAATCCTGGGGTGAGTGGAGTCACCCCAC
TCCCAGTTGCTGGCAGAGACTGAGACTAAAGCATCACTTAATAAACCCCCCAAGCCC

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FIGURE 20

ACTCCCCGCCCAGGCCTGGCCCGCCTGCCTGGCCACTCTTCCTCCATCAGCCTGGCTGGCAGCAGCCTTGGACTC
CGCCCGTGGAGCCCTGGGCCTGTTGACCCACCAGCTTAGGAGCACCCACCAAGCTCTGGGTGTTCTGGGAAGATG
GCATCATGTCTGGCTACCGCCGCCCCACCAGCTCGGCTTTGGACTGTGTCCTCAGCTCCTTCCAGATGACCAACG
AGACGGTCAACATCTGGACTCACTTCCTGCCCACCTGGTACTTCCTGTGGCGGCTCCTGGCGCTGGCGGGCGGCC
CCGGCTTCCGTGCGGAGCCGTACCACTGGCCGCTGCTGGTCTTCCTGCTGCCCGCCTGCCTCTACCCCTTCGCGT
CGTGCTGCGCGCACACCTTCAGCTCCATGTCGCCCCGCATGCGCCACATCTGCTACTTCCTCGACTACGGCGCGC
TCAGCCTCTACAGTCTGGGCTGCGCCTTCCCCTATGCCGCCTACTCCATGCCGGCCTCCTGGCTGCACGGCCACC
TGCACCAGTTCTTTGTGCCTGCCGCCGCACTCAACTCCTTCCTGTGCACCGGCCTCTCCTGCTACTCCCGTTTCC
TGGAGCTGGAAAGCCCTGGGCTCAGTAAGGTCCTCCGCACAGGAGCCTTCGCCTATCCATTCCTGTTCGACAACC
TCCCACTCTTTTATCGGCTCGGGCTGTGCTGGGGCAGGGGCCACGGCTGTGGGCAGGAGGCCCTGAGCACCAGCC
ATGGCTACCATCTCTTCTGCGCGCTGCTCACTGGCTTCCTCTTCGCCTCCCACCTGCCTGAAAGGCTGGCACCAG
GACGCTTTGATTACATCGGCCACAGCCACCAGTTATTCCACATCTGTGCAGTGCTGGGCACCCACTTCCAGCTGG
AGGCAGTGCTGGCTGATATGGGATCACGCAGAGCCTGGCTGGCCACACAGGAACCTGCCCTGGGCCTGGCAGGCA
CAGTGGCCACACTGGTCTTGGCTGCAGCTGGGAACCTACTCATTATTGCTGCTTTCACAGCCACCCTGCTTCGGG
CCCCCAGTACATGCCCTCTGCTGCAGGGTGGCCCACTGGAGGGGGGTACCCAGGCCAAACAACAGTGAGGCCCCA
TCCCTGACCCTGTCCTGGAGGGGGCAGAGGCCAGGCCCCAGTGCTGACGAGGAGCCCAGATTTGGGCCTAATCAG
GTGGGGACGCATCTCAGCCTGGAACCAACAGGGGCTGAGGAGAGAGGGCACAGGAGAGAGGGCAGAGAAGAGGAG
GGGTGTCTAGGGGGACTGGCAGAGTGTGAGAGGGACCGTGAGGGGGCTCTTGATGGGAGTGGAAGAAGTGCTGAG
GGTCTGAGAGGGGAGATGCATGCGTGTCCAGGCTGAAGATGCCCCTATATTCTGTCAAAGGTTGGCGGGGGGAGG
TGTTGGGGTCCTTTCATCTGGCTCCGTTTCTGGTGCTTCTGGAAGTCTCTGCTCAGCACAGGGAAGAACTAACAC
GACTAACCTAGGCCTACCCTGAATGCTTCTTGCTAACCAGGCCGAGAGGCCACACACTTGCCCCCCCATCCCCAC
AAACCAGGTAATGCCAGTTTGCCAGCAGCTATTTGCCTATAGAGATGAGTCTGTCCTGGTCATAACTGTGTGCTC
AAGGTGTCCAGGCTTTTGGGGGTGGGCCTATCTGGGTGCATTATGGATGGTTTGGTGGATTGAGGTGTGGGGAGG
AGGGTCCTAGGCTAGAGGGGGTATCCCTAGTTAGACTTTGGGAAGCCACCTTCAACGTTTTCTGGAACAAGGCAG
GTACAAATAAAAAAATAAAACTTTGGAAAGC

FIGURE 21

GCAAGTAGCGCCAATCTAGGCAGCGGCTGTGAGGAAAAAAGGCATGAGGGGTCGTCTTCGGAATCTGTGCCACCC
GGCACTACCATTTCGAGGGTGAAGCTCCTCGACACC**ATG**GTGGACACTTTTCTTCAGAAGCTGGTCGCCGCCGGC
AGCTACCAGAGATTCACTGACTGCTATAAGTGCTTCTACCAGTTGCAGCCTGCGATGACACAGCAAATCTATGAC
AAGTTTATAGCTCAGTTGCAGACATCTATCCGGGAGGAAATCTCTGACATCAAAGAGGAGGGGAACCTAGAAGCT
GTCTTGAATGCCTTGGATAAAATTGTGGAAGAAGGCAAAGTCCGCAAAGAGCCAGCCTGGCGCCCCAGCGGGATC
CCAGAGAAGGATCTGCACAGTGTTATGGCACCCTACTTCCTGCAGCAACGGGACACCCTGCGGCGCCATGTGCAG
AAACAGGAGGCCGAGAACCAGCAGCTGGCAGATGCCGTCCTGGCAGGGCGGAGGCAGGTGGAGGAGCTGCAGCTA
CAGGTCCAGGCCCAGCAGCAGGCCTGGCAGGCTCTACACAGAGAACAGAGGGAGCTGGTTGCTGTGCTGAGGGAG
CCTGAG**TGA**GGAGACCGCCAGCCCCAGAAGCAGAGGGCAGTCAAGGTCAAGAGCCTGTGGTCCAGCATGCCTGGC
CTGGGCGGGCTACCTCTGAGAACGGCTGAAATGGTGCCCAGTCCATCAGCAGTGATGGAATTTGCTGGAGGACTA
GGCCAGAGCAAGCCTCACTGCCACTGTGCCTTTGGGGCACCCTTGGGGTTGGACATACACCCCCTTTAGATTCCT
CTGTTTCTTCTACCTGGATAATTCTTGGCCATGTTCTCTCTTCTCTAGGTTCAGGTCAGCTCTGCCCCTCCGCCC
CCCTCCTGCTGGTTCCCCAGCCCTTTTCCCTGGCCCTGGCTTGGAGAATCTGTTTTCAATCTCCACTGATTGCCC
CCTTGCTGGCCAGCCCAGGGGCCTTTACCATGTTCTCTCCACATCCGTAAATAAACTTCCTTCACTAC

FIGURE 22A

AAACAAGAAGAATGGGATTGATATTTCCGCAGGAAGTTTGGAAGTTATGTAACAGAGCAGGTTGAGATCCTACCT
TTTAGGAGCAGCCTGCCCCTTTTGAAGGGGTAAAGGGAGTGGGTGCAGTGCCCTCTCTTCTGTTGTAGTGGCTTA
TCCCTCTAAGGCATGACCCTTGGATAGGGGTTACCTGCCTCGGAAAGTCCCCACTTCCTTGTGGGAGTTTAAAAT
AGATTGGCATATGTGAGAGATGGAGACAAGGTGGGAAATCGGATCCTGTCTTAGGATTTCTCATCAGGAGATGCT
GATACTTGGTGTTTCAGCTTGATAAATTGAGAAGGTGCCATGAAACCAGGTCCTGGAACAGAATCCCTGGTTGCT
CTGTCTTTTAGCTGCTCTGACCCTCTGCCCTGCAGAGCATGCATTTTGCATGTGCCTGGCAGGAGGCCCTCCTGC
TTGAGCCCTGCTGTATTTGTCTGTGTTGACAACGTGACTGCCAGCCATTAAGCTTGGTCAGTCCACAGACACACT
AGGAAAGCAGAGGCAGCTCTTGGTTTCTCTGGAACAGAGCTGCAAGAAGTCTCTGGGCATCTGCATGGCCAGGAG
CTTATGCTTAACTGTTGAGTGACCTGCAGCCATAAGGGCATTAATTCTGCCTTCCAGAGGTGGGAATGACTTGGC
TTTAAACAGTGATTTGTGTGAGAATTCTTCAAATCCCATAAGGTAGAAGGCATGGTGGAGTAGAGGAGAAATCTT
GGCTCATATCTGCCTCTTCCATTGACCAGCTGTGTGACCTTGGGCCTGTTACTTTTAACCTACCTGACCCTCCAT
TTCCTCATTTATCAGAAGTGTCTAACTGTACACAAGTTAAACTGTAAGGATTACATGAGGTAGTAGTCAATCCTG
GTGTTTCTCTGTATCTTCTCACTTCTCACTGGTGTTGGAAATATGATCTTGCGACCCTAGATGGCAGCCACTCTG
GGGCAGAAGAGACAGTGACCACCTTTTGAAGAGCTCAAAGGAGAATATTGCCCCACAGGGCTTAGTGGGTCCCCC
AGGCTGAGGCTGGGGAGGAGGGCCACCTTTGCCTACAGCAAGTGGCATATCATTGTTCTAGGGGTTCTCTTGACG
GCAGAACTTTGCCTCTAGCTCATTTTCCACAGCCTAGATTTTCCAATCTTGCCAATCCAGTTGACTTCTGTCTTC
TCATTTCCAAGCCATTGTTCTCTCTCTTTCACTATCTACATGGATTATCCTTCATTCAAACTGCTTTGTCCCGGC
TGGGTGCGGTGGCTCATGCCTGTAATCCTAGCACTTTGGGAAGCCGAGGCGGGTGGATCACGAGGTCAGGAGATC
GAGACCATCCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAATTAAAAAAATTAGCCGGGCGTGGTGGCAGGC
GCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCATGAACCCGGGAGGTGGAGCTTGCAGTGGGT
GGAGATCGCGCCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCGTCTGAAAAAAAAAAACAAAAAAACTGCT
TTGTCCTGTAGGAATCCTGTGCGGGTTATGTGCACCTCCCTCAATCCTTACCTTGAAGCTAAGGTTTCCCCTCAG
CTCTCAAGTACTCAGTTTGCACTGCAGGTAGTCCCTATTTTAACGAAAGTTATACGGTCCAGCTCAGGGAATCCT
GAAAAGCTGCCCTTGCTTCCATGGTAATCAAAAGGCAGTTCTCATGGAATAAAAGCTACCTGAAGCCTGAGTTGG
GACCTTTGGCTGGGGAAGGTGGTTGAGGACGTTCTCTGATTAGATGCTTGGCATGAGGTTTGCTACTGGAACTGC
TAGTGTAGAATGTTTCAGCCCCCTAGAGTTGTCCCTGTGATGTGGCTACCTCCTTTCTCTGGGATTTCTCTTAAA
GTCTGGGGAGCCCCTGCTTCTCATTTCCTGGAATTTATCTTCCCAGTCTCCCTTTCTGGCTGAAAATTTCTAGTA
TCTTACAGAACAGCGGTGGGATACACTGGAGCACATCATATTACCACTAAGTATGTCTAATAAATGATGTCCTCT
GATTTGACATTTCCTAAATGTGAAGCTCCTGATTTTATACAATTTTGAAATTAGTAAGCTTGTTAGTTTTGTTTG
AAATTCTAGGCATTGGATACACTTAACATGAGGGCTACATGTGCATCAACATACTCTGGTTTCCTTCCCTCTGTA
TCTTTTTTTTTTTTGAGATGGAGTCTCACTGTCTCCTAGGCTGGAGTGCAGTGGTGTGATCATGGCTCACTGCAG
CCCCAACCTTCAGGGCTCAGGTGATCCTCCCACCTCAGCCACCCAAGTAGCTGGGACCACAGGTGCATGCCACCA
TGCCTGGCTAACTTATTTTTATATATTGTAGAGACGGAGTCTCCCTATGTTGCCTAGGCTGACCTTGAGCTCTTG
GGCTCAGGTGATCCTCCCACCTTGGCCTCCCAAAGTGTTGGGATTATAGGCGTGAGCCACTGTGTCCAGCCTTTT
CCTCTGTATCTTGTATCCATTCCCCAGAGCGATACTGTGTATCCTTGAACAGACGGTTTCTTGAAGTCAGAGTCT
ATCTCCTCTGTCACTTCTCCCCCTTCATTATCTAAGACTGAGGTTGTGGTTTATATGCTTAGAGTTGAAAGCATG
GGGTCCAACGTGTTCTGTACTCTGTAGTTCCCCAGACTCTTCAGGGAAACTACTTAGCTCTCAGGTGGTTCTTTT
CTGTTTTTCTCAGAGCAAGTTATCTAATAACTGAAGAGGACTCTGCCCTTTGGCCTGTTCCTGACTTTCTAACTC
CTTTTGCTGGAGGAAGGGGAGGTTGAGGGGGGTGCCCTGTGGTGTGAAAGCCCCACTTGCCCTCTCCTCTATACT
TTCTTCCAATGCAGACGGGAGAAAGTATCATAAATGTAGTGACTGTGGGTCAGGGGAGCTCTGAGAGGCCAGCAC
AGGAAACCAGAAACAAAATGAGTCAGTTCGTAGGTGGCGATCAGAGGCACCCTGCTGAGGGTGCAAGGCCACAGG
TGATGCCTCCTCAGTAGGCCCAGGAGCATCAAAACGGGAACAGTCCCTTTCAGCCTTCAGGAGCCTCCCAAATGT
CACTTAGTGATGTCCCATTCACCTGCTTAAAGGCCCTGCATCCTGCCAGGTAGTTGGTTTGTCCATAGCATCCTG
AGCTCTGCTTGGGTGAGCCAGACAAAAAGAATGATTCCTGGCCAGAGTAGTGATACCAGGGCCCAGACAGAGGCA
GAGAGTCCGGATAGAAGATCCTGTAAGCTGGGGTAGGGAGCCGAGGAGGCCATGGAGCCAGGGGAATCATTGAAG
TGAGGGACAATTTCTGGAGGAGGGAAACTGAGTAAGGAAGGCCTGGCCAAGGACCAAGAAGGGGACAGTATCCTG
ATCTATGAAAGAAGACTCAAGTGGGGATTGACAGAGCCAGATTGGGTGGAGTCCAAGCTTTGGGCAGGTGAGTGT
CCAGGAG**ATG**AGGGCTGAGAATGGGCCTTCAGAGCCCAGCCAGAAGGGGAAAGCACAAAGCTCCACCCTCCTTCT

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FIGURE 22B

TCACATCCCTCCATACTGCTCAAATCCCAGGTCTTCAGGCACCATGGAGGACAAACGCAACATCCAGATCATCGA
GTGGGAACACCTGGACAAGAAGAAGTTCTACGTGTTTGGTGTGGCAATGACAATGATGATCCGTGTCAGTGTCTA
CCCATTCACCCTCATCCGCACCCGGTTGCAAGTTCAGAAGGGGAAGAGCCTCTACCATGGGACCTTCGATGCCTT
CATCAAGATCCTGCGAGCAGATGGTATCACTGGCCTCTACCGAGGGTTCCTGGTCAATACCTTCACCCTCATCTC
TGGCCAGTGTTATGTCACCACTTATGAGCTCACCCGGAAGTTTGTAGCTGACTACAGCCAGAGTAACACAGTCAA
ATCACTGGTGGCTGGTGGCTCAGCCTCCCTTGTGGCCCAGAGCATCACAGTGCCCATTGATGTAGTCTCCCAGCA
CCTGATGATGCAACGCAAGGGTGAGAAAATGGGCCGCTTTCAGGTGCGGGGGAACCCAGAGGGACAAGGGGTAGT
TGCCTTTGGCCAAACCAAGGACATCATCAGGCAGATCCTGCAGGCTGATGGACTTCGCGGCTTCTATCGAGGCTA
TGTGGCTTCACTGCTTACCTATATCCCAAACAGTGCTGTCTGGTGGCCCTTCTATCACTTCTATGCAGAGCAGCT
CTCCTACCTGTGTCCTAAGGAGTGCCCTCACATTGTCTTTCAAGCTGTCTCGGGGCCCCTGGCTGCAGCCACTGC
CTCCATCCTCACCAATCCCATGGATGTCATACGAACCCGTGTGCAGGTTGAGGGCAAGAACTCCATCATCCTGAC
CTTCAGACAGCTGATGGCAGAAGAAGGGCCTTGGGGCCTCATGAAGGGCCTCTCGGCCAGAATCATCTCAGCCAC
ACCTTCCACCATTGTCATTGTGGTGGGCTATGAGAGCCTCAAGAAACTCAGCCTCCGACCTGAGCTGGTGGACTC
GAGACACTGG**TAA**CCAGTGGTGGGGAGAGAAGCCTGCTGTTTTCCACACTACCGTGGGTCAGGGGCAGAGTGGAG
AGGACAGCACCCTCTCCAGGTGCTCCCACCACACACCCAGCCCTGCCCTGGGCCAAGTGGCCTATCTGGGATAGG
GATAGAGACTTTGAACTGCTCTTGCTGAAGAGGCTCCACGCCTGGATCCCTTGCCCCCACTATTTAAAATTCTCT
TCTGAGCTGGGCTCCCTCACTCAGTCCCTGTATTTGATACTGGCCTAAAGACCCCACCCCCCACCCTGCCAGCCC
TTCTTCTGGCTTCCCCTTCCATCTGTGTCCCTGAGACCCTGAGAAGAGCTGTACATAGAGCTTGCTTACTACCAC
TGGTTCTTCCTCTTGGGCTTTCAGCCCAGACTCCAAGCAGCTGCTATCAACCCTCTCTCCCTTCATCTCTTAGCC
TTGCTTATTTTTATTTTGGGACCGAGCTGCCCACTAGATGACTCTGCTTTTCCCTGCATTTGGGGCTAAGGTGCC
AGGTACTTATTTGCACAGGGAGCAGGAGCAGCAAAAAATCTCTGGTTCTCCAGAGCACTCGTCCTCTCTTTGGAG
GGGTTATTAGGTTGGGAGAAATGTTGATACTTTTGTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTTTTAACATCTGTGAACCAGGCTATTAGTCCTGCTAAAGCGCCAATCCTGCTGTCAGAGCTCACCCCC
TTCCTAAGACAGGTAGAAAAATGTAATGTAGCTTTTTCCACAAGCCACTTCCCTGTCCCTTCAGTCTCAGGAGCC
CTAGGAGAGTCTAAGCTGGGGCATCCCCTGGCCCAGAGGACTCCCGTGGTGGGCACAGTTCTAAGTGGATCAGGC
TGTCTTGGGTGCACTGGACTTGGAGCACTACCTTGAGAAGTCAGGTTGAGAAAGTAGTTGATCTAGAAGGCAACA
AGTGGGCATGTGTTCCCCAGCACATTACCCAGGCCAGCAGAGCCAAACCTAGGAGAGGGCAGTGGGTAGATTCTC
TGCCCCAGGCAGCCATGACATACACATAAATACCCCAATCACTCAGACTTACGGCAACAAGTGTTGTCTCACTAT
GGTGATCTCTAAGATCCACATCACTGGATGCGTAGTCATCCCAGTCATGGTACCCTGTGGAGGAATGCTGGAAGA
ACATAAAGAGCAGTTCAGAAAGTCACCCAATACCAGGACCACTGCATTTACCAGCCTGATACTGCCAAGATTATC
TGATGCTCTCCTCAGGAGCTAGGAGAGGAGTGCTCCTTCCTCCCTACCGCTACTCTCCCCAAGCCTGTGTTGCAG
GTAGAGAGGTGCAGCAAATAGAGAAGGCATGTCAAACCCTGCATTTCTACCTGAGACGTGTGACCTGGATGATCC
TCCAAACCCTATTGGTCCCACCCCCTGGGAAAGGCCATGGTGCCAGTTTGAAAGGTGCTAGCTACCTGAAGCCTT
GATATTTCTTCATGGCTGCCGCACATTCTTCCACCTTGGCCAGAACAGGTTCTGAAAACCACTTCTCTACCTTCA
CCACCACCACTGCCCATCTTGATCTCTTTGAGGGTTTTCCCATTTCACTTGATCTTATTTTTGTTTATCCCTTCC
TGCACTTTGTCAAGAGAGTCCTCCAGTTTCTATCCAGGAATGTTCACATCCAAAGGGTTGGACCCACGGATCATT
CTGAATCTTCCTGCCCCTCCTCACTGCTTAACCCTGAGAACCACAAATATAATGGAAGCAGTTCCCCCCACCCTC
ACCCCATCTCTTTAAGCTCATCCTAGCAAGACCTCTAGAGACCCTAGAGACTCGACTTTAGTCCTTCCCCGCCAT
GGCACAGTGGGGAAGGTGTCAATGGGGAGTGTCACGGACAGGAGGTAGGATCCTGCCGCTCGCGTCTTAGTGTTT
CTCCCTCAAGACTTTCCTTCTGTTTTGTTGTCTTGTGCAGTATTTTACAGCCCCTCTTGTGTTTTTCTTTATTTC
TCGTACACACACGCAGTTTTAAGGGTGATGTGTGTATAATTAAAAGGACCCTTGGCCCATACTTTCCTAATTCTT
TAGGGACTGGGATTGGGTTTGACTGAAATATGTTTTGGTGGGGATGGGACGGTGGACTTCCATTCTCCCTAAACT
GGAGTTTTGGTCGGTAATCAAAACTAAAAGAAACCTCTGGGAGACTGGAAACCTGATTGGAGCACTGAGGAACAA
GGGAATGAAAAGGCAGACTCTCTGAACGTTTGATGAAATGGACTCTTGTGAAAATTAACAGTGAATATTCACTGT
TGCACTGTACGAAGTCTCTGAAATGTAATTAAAAGTTTTTATTGAGCCCCCG

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FIGURE 23

CCCATGTTTGGTGGTACCAGGAAAGAGAGACTGATTATCTAGAGAACGCCTGAACACACCTGTAGGTGGGAGAGG
AGAGATGAAAGATGAGGAAGTGGGTAAAGCGAGTGGGGATGCTGGAGGTCAGATGATTAGAGAACAGATCCCTGG
CAGTGATGGGGGGAGAGATGTGCTGGTTAGTCTTGGTGGAAGAGGGACCTGTGCCTTTGTGACAGAGGGTAGAGG
AGGAAGGTGGTGTGGAGGTGTGGACAGAGCATTATCAGATACTGAGAGAGATGTGGCCAGGATGGGGGTGGATGC
ACAGTCTTTCTATAAATTTGTCTACCAACAGTTGAAGCCAACTGCTGCAGTGGGGAAGCAGGGCTGAATTGGAGT
CACGAGAAGTGTGGGAGAGGTGTGGACAGCAACTGTGGGGGCCGCAGCAGGGGAGTTAGTGATGGATGAGGTATC
GCCTGTCTAGCAGAAGGATACAAGCTGAGCCTGGTCAACACCAACCTGTGGTTGGCCCAAAAGGCAAAAGTTTGC
AGCACCCTCTAGCAATGCTCAGAGTGGAGGAAAGTGCTGTGGGCTGGTTCTGGGTGGGCTGGTTCTGGGTGGGGA
GCTGGCAGGGCAGAGGAGGTAGTCTGGAGTTGGAG

FIGURE 24

GATGAGCAAGTGGTGGGGACGCCCCTGCTGGTGAAATCTGGCGTGGAGTATACACGGCTTGCAGTGGAGACAGCC
CAGGGCCTTGATGGGCACAGCCATCTTGTCATGTACCTGGGAACCACCACAGGGTCGCTCCACAAGGCTGTGGTA
AGTGGGGACAGCAGTGCTCATCTGGTGGAAGAGATTCAGCTGTTCCCTGACCCTGAACCTGTTCGCAACCTGCAG
CTGGCCCCCACCCAGGGTGCAGTGTTTGTAGGCTTCTCAGGAGGTGTCTGGAGGGTGCCCCGAGCCAACTGTAGT
GTCTATGAGAGCTGTGTGGACTGTGTCCTTGCCCGGGACCCCCACTGTGCCTGGGACCCTGAGTCCCGAACCTGT
TGCCTCCTGTCTGCCCCCAACCTGAACTCCTGGAAGCAGGACATGGAGCGGGGGAACCCAGAGTGGGCATGTGCC
AGTGGCCCCATGAGCAGGAGCCTTCGGCCTCAGAGCCGCCCGCAAATCATTAAAGAAGTCCTGGCTGTCCCCAAC
TCCATCCTGGAGCTCCCCTGCCCCCACCTGTCAGCCTTGGCCTCTTATTATTGGAGTCATGGCCCAGCAGCAGTC
CCAGAAGCCTCTTCCACTGTCTACAATGGCTCCCTCTTGCTGATAGTGCAGGATGGAGTTGGGGGTCTCTACCAG
TGCTGGGCAACTGAGAATGGCTTTTCATACCCTGTGATCTCCTACTGGGTGGACAGCCAGGACCAGACCCTGGCC
CTGGATCCTGAACTGGCAGGCATCCCCCGGGAGCATGTGAAGGTCCCGTTGACCAGGGTCAGTGGTGGGGCCGCC
CTGGCTGCCCAGCAGTCCTACTGGCCCCACTTTGTCACTGTCACTGTCCTCTTTGCCTTAGTGCTTTCAGGAGCC
CTCATCATCCTCGTGGCCTCCCCATTGAGAGCACTCCGGGCTCGGGGCAAGGTTCAGGGCTGTGAGACCCTGCGC
CCTGGGGAGAAGGCCCCGTTAAGCAGAGAGCAACACCTCCAGTCTCCCAAGGAATGCAGGACCTCTGCCAGTGAT
GTGGACGCTGACAACAACTGCCTAGGCACTGAGGTAGCTTAAACTCTAGGCACAGGCCGGGGCTGCGGTGCAGGC
ACCTGGCCATGCTGGCTGGGCGGCCCAAGCACAGCCCTGACTAGGATGACAGCAGCACAAAAGACCACCTTTCTC
CCCTGAGAGGAGCTTCTGCTACTCTGCATCACTGATGACACTCAGCAGGGTGATGCACAGCAGTCTGCCTCCCCT
ATGGGACTCCCTTCTACCAAGCACATGAGCTCTCTAACAGGGTGGGGGCTACCCCCAGACCTGCTCCTACACTGA
TATTGAAGAACCTGGAGAGGATCCTTCAGTTCTGGCCATTCCAGGGACCCTCCAGAAACACAGTGTTTCAAGAGA
CCCTAAAAAACCTGCCTGTCCCAGGACCCTATGGTAATGAACACCAAACATCTAAACAATCATATGCTAACATGC
CACTCCTGGAAACTCCACTCTGAAGCTGCCGCTTTGGACACCAACACTCCCTTCTCCCAGGGTCATGCAGGGATC
TGCTCCCTCCTGCTTCCCTTACCAGTCGTGCACCGCTGACTCCCAGGAAGTCTTTCCTGAAGTCTGACCACCTTT
CTTCTTGCTTCAGTTGGGGCAGACTCTGATCCCTTCTGCCCTGGCAGAATGGCAGGGGTAATCTGAGCCTTCTTC
ACTCCTTTACCCTAGCTGACCCCTTCACCTCTCCCCCTCCCTTTTCCTTTGTTTTGGGATTCAGAAAACTGCTTG
TCAGAGACTGTTTATTTTTTATTAAAAATATAAGGCTT

FIGURE 25

ACTCAGTGTTCGCGGGAGCGCCGCACCTACACCAGCCAACCCAGATCCCGAGGTCCGACAGCGCCCGGCCCAGAT
CCCCACGCCTGCCAGGAGCAAGCCGAGAGCCAGCCGGCCGGCGCACTCCGACTCCGAGCAGTCTCTGTCCTTCGA
CCCGAGCCCCGCGCCCTTTCCGGGACCCCTGCCCCGCGGGCAGCGCTGCCAACCTGCCGGCC**ATG**GAGACCCCGT
CCCAGCGGCGCGCCACCCGCAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTCGCCCACCCGCATCACCCGGCTGC
AGGAGAAGGAGGACCTGCAGGAGCTCAATGATCGCTTGGCGGTCTACATCGACCGTGTGCGCTCGCTGGAAACGG
AGAACGCAGGGCTGCGCCTTCGCATCACCGAGTCTGAAGAGGTGGTCAGCCGCGAGGTGTCCGGCATCAAGGCCG
CCTACGAGGCCGAGCTCGGGGATGCCCGCAAGACCCTTGACTCAGTAGCCAAGGAGCGCGCCCGCCTGCAGCTGG
AGCTGAGCAAAGTGCGTGAGGAGTTTAAGGAGCTGAAAGCGCGCAATACCAAGAAGGAGGGTGACCTGATAGCTG
CTCAGGCTCGGCTGAAGGACCTGGAGGCTCTGCTGAACTCCAAGGAGGCCGCACTGAGCACTGCTCTCAGTGAGA
AGCGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCAGCCCTAGGTGAGGCCA
AGAAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGAACTGG
ACTTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTGGAGATTG
ACAATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGAACTGCGGGCCCAGCATGAGGACC
AGGTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGA
GGAACAGCAACCTGGTGGGGGCTGCCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATCGACAGCCTCTCTGCCC
AGCTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACTGGCCCGTG
AGCGGGACACCAGCCGGCGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGC
AGCTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTCT
TGGAGGGCGAGGAGGAGAGGCTACGCCTGTCCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGTGCTTCCTCTC
ACTCATCCCAGACACAGGGTGGGGGCAGCGTCACCAAAAAGCGCAAACTGGAGTCCACTGAGAGCCGCAGCAGCT
TCTCACAGCACGCACGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGCAAGTTTGTCCGGCTGC
GCAACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGA
CTTACCGGTTCCCACCAAAGTTCACCCTGAAGGCTGGGCAGGTGGTGACGATCTGGGCTGCAGGAGCTGGGGCCA
CCCACAGCCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAACAGCCTGCGTACGGCTC
TCATCAACTCCACTGGGGAAGAAGTGGCCATGCGCAAGCTGGTGCGCTCAGTGACTGTGGTTGAGGACGACGAGG
ATGAGGATGGAGATGACCTGCTCCATCACCACCACGTGAGTGGTAGCCGCCGC**TGA**GGCCGAGCCTGCACTGGGG
CCACCCAGCCAGGCCTGGGGGCAGCCTCTCCCCAGCCTCCCCGTGCCAAAAATCTTTTCATTAAAGAATGTTTTG
GAACTTT

FIGURE 26

GCGCAGACGCCCCAGCCCCCCACCGCCCCCAAAGGGGCGAGCGACGCCAAGCTCTGCGCTCTCTACAAAGAGGCC
GAGCTGCGCCTGAAGGGCAGCAGCAACACCACGGAGTGTGTTCCCGTGCCCACCTCCGAGCACGTGGCCGAGATC
GTGGGCAGGCAAGGCTGCAAGATTAAGGCCTTGAGGGCCAAGACCAACACCTACATCAAGACACCGGTGAGGGGC
GAGGAACCAGTGTTC**ATG**GTGACAGGGCGACGGGAGGACGTGGCCACAGCCCGGCGGGAAATCATCTCAGCAGCG
GAGCACTTCTCCATGATCCGTGCCTCCCGCAACAAGTCAGGCGCCGCCTTTGGTGTGGCTCCTGCTCTGCCCGGC
CAGGTGACCATCCGTGTGCGGGTGCCCTACCGCGTGGTGGGGCTGGTGGTGGGCCCCAAAGGGGCAACCATCAAG
CGCATCCAGCAGCAAACCAACACATACATTATCACACCAAGCCGTGACCGCGACCCCGTGTTCGAGATCACGGGT
GCCCCAGGCAACGTGGAGCGTGCGCGCGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAG
TACAACAATGAAAACGACTTCCTGGCGGGGAGCCCCGACGCAGCAATCGATAGCCGCTACTCCGACGCCTGGCGG
GTGCACCAGCCCGGCTGCAAGCCCCTCTCCACCTTCCGGCAGAACAGCCTGGGCTGCATCGGCGAGTGCGGAGTG
GACTCTGGCTTTGAGGCCCCACGCCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGCGGGTACCTCTTTCCGGGC
TATGGCGTGGGCAAGCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCCGCTGTGGGCGGGCCAGGAGAAC
GCCACGCCCACCTCCGTGCTCTTCTCCTCTGCCTCCTCCTCCTCCTCCTCTTCCGCCAAGGCCCGCGCTGGGCCC
CCGGGCGCACACCGCTCCCCTGCCACTTCCGCGGGACCCGAGCTGGCCGGACTCCCGAGGCGCCCCCCGGGAGAG
CCGCTCCAGGGCTTCTCTAAACTTGGTGGGGGCGGCCTGCGGAGCCCCGGCGGCGGGCGGGATTGCATGGTCTGC
TTTGAGAGCGAAGTGACTGCCGCCCTTGTGCCCTGCGGACACAACCTGTTCTGCATGGAGTGTGCAGTACGCATC
TGCGAGAGGACGGACCCAGAGTGTCCCGTCTGCCACATCACAGCCACGCAAGCCATCCGAATATTCTCC**TAA**GCC
CCGTGCCCCATGCCTCCGGGGCCCACTCCACTGGGCCCACCCTGGACCTGTTTTCCACTAAAGCCTTTTGGAAAG
CGGTGATTTGAGGGGCAAGGTGCTTAGAGATACTCGCTCGCTGGGGAAGGGGGGAGGGAGGCAGTGGTGGCTGGA
GGGTGCGCCACTTTCAGAGCCTCTGGTCACCCTGTCCTGGAAAGATTGGGAGGGGGCCAGACTGAAAATTTTACT
AGAGTTACAACTCTGATACCTCAACACACCCTTAAATCTGGAAGCAGCTAAGAGAAACTTTTGTTTTGCCAGAGG
TGGCCACTAAGGCATTCTGACGCCCTCTGCCCACCTCCCCCGCTGTGTGTCACTCCACCCCTTCTTCCGAGGAGG
GGGTGGGTAAAAGGGAGAGGGAGAATTACCACCTGTATCTAGAGGTGCTCTTTGCAATCCCTAAGCCCTCTGGTC
CTGACCTCCGACCTCCCAGCTCTGTCTTGTTCCTTGTCTTTGTCTTTCTTCCCTTCCCCCTGCCCCTGCCCCTAC
CAGCCCAGCTTTGGGGACACCATCCTTCTGGGGAGAAGTAGGGGGAGGAATATTTGGATGGTCCCTCCATTCCTC
TTCAGGCATCTGGAGGCCCTCTCCCCCACTCCTCCAAAGAAACATCTCAAATTATTGATGGAATGTATCCCCATT
CTCAGTGAAAATGTGAGGAGGGGACTAATACTGGGGTAAAGGGTCAAACCCCCACCTTCATCACTATGGGCATTA
TATTTAGGGAGTAGTTCTTGGGCTGGATTTTCTGGTTGTGGAAGTGGGGGCGCCAGAGTAGTGTGTCTGCTATTT
AAAGGAGCAGGAAAGGGCGTGAGGCAGGAGGAGAGACTGGTGGAGGGAAGAGCTGCTCCTCCCATGCAGTGCCCG
ACTCCCTGCACCCCTCTCAACCTGACCTGAACCTTTATTGAATCCTTATTAGCTTGAATCCTTATTAGCTTGAAT
CCTCCATGCAAATCATGGAGTCTGTGTCCCACCTGATGTGGTTGAGGAGAAGCCAGGTCTTCAAAGAGGGGTCAG
CCTGGGGCAAAGCAGGACTGGGGGGAGGTGGGCAGCAGGGCCTATTCTGAGAATCACATATTGTTACAGGCCTTG
CACCCCCTTTGCTGCTTCCCTCCTGCTCATTTGGGGCTGCCACCAGCTCTCCACCCTCCTGGTTCCGCTGGCCGG
GCCAAGAGAGGATGGAGGGATGGGAGTCCCAGGAGATCCTTGTAAATAGTGGGGTGGGACTGTTCTGAGTGATCA
CCCGAGCACTTAAAGCTCCAGAGTCCCATTCTTCCTGGATGGAGCAGGTGGAGGTGCAGAGGGGATTTCCTCCTC
TCCTTCCTCCTGTCGAGAATTAACACCTCTCCACAGCCTTCCCCTCCAGAACACCAGCCAGGGAGGGGTGGGGAA
GGAGGTCACAGCCAAGAAAACTGCCCTGTGACGACTTCCCTCCTTCCCGCCTATGTGAGCCATCCTGAGATGTCT
GTACAATAGAAACCAAACCAAATGGGCACCCTCGGTTGCCGGGGGGCAGGTGGGGAGGGGGGTGGGAAGAAGGGA
TGTCTGTCTGTCGTCCCCCTCCCCCTCTCCACTCTTTACCCACAAAGGCAGAAGACTGTTACACTAGGGGGCTCA
GCAAATTCAATCCCACCCTTACCAATTGAGCCAAACCTAGAAACAAACACAAAACACGAATAGTGAGAGACAAAA
TAGAGGAGAGAAAGAGAGCATGAGAGGGAGCGAGACAGGCGACCAACACAGAGGAGAGAAAACAAAAATAGC

FIGURE 27

CTCTGCTTCCTTACAGCACCCCCACCTGCCAGAGCTGATCCTCCCTAGGCCCTGCCTAACCTTGAGTTGGCCCCC
AATCCCTCTGGCTGCAGAAGTCCCCTTACCCCCAATGAGAGGAGGGGCAGGACCAGATCTTTTGAGAGCTGAGGG
TTGAGGGCATTGAGCCAACACACAGATTTGTCGCCTCTGTCCCCGAAGACACCTGCACCCTCCATGCGGAGCCAA
GATGGGGAATGGAACTGAGGAAGATTATAACTTTGTCTTCAAGGTGGTGCTGATCGGCGAATCAGGTGTGGGGAA
GACCAATCTACTCTCCCGATTCACGCGCAATGAGTTCAGCCACGACAGCCGCACCACCATCGGGGTTGAGTTCTC
CACCCGCACTGTGATGTTGGGCACCGCTGCTGTCAAGGCTCAGATCTGGGACACAGCTGGCCTGGAGCGGTACCG
AGCCATCACCTCGGCGTACTATCGTGGTGCAGTGGGGGCCCTCCTGGTGTTTGACCTAACCAAGCACCAGACCTA
TGCTGTGGTGGAGCGATGGCTGAAGGAGCTCTATGACCATGCTGAAGCCACGATCGTCGTCATGCTCGTGGGTAA
CAAAAGTGACCTCAGCCAGGCCCGGGAAGTGCCCACTGAGGAGGCCCGAATGTTCGCTGAAAACAATGGACTGCT
CTTCCTGGAGACCTCAGCCCTGGACTCTACCAATGTTGAGCTAGCCTTTGAGACTGTCCTGAAAGAAATCTTTGC
GAAGGTGTCCAAGCAGAGACAGAACAGCATCCGGACCAATGCCATCACTCTGGGCAGTGCCCAGGCTGGACAGGA
GCCTGGCCCTGGGGAGAAGAGGGCCTGTTGCATCAGCCTCTGACCTTGGCCAGCACCACCTGCCCCCACTGGCTT
TTTGGTGCCCCTTGTCCCCACTTCAGCCCCAGGACCTTTCCTTGCCCTTTGGTTCCAGATATCAGACTGTTCCCT
GTTCACAGCACCCTCAGGGTCTTAAGGTCTTCATGCCCTATCACAAATACCTCTTTTATCTGTCCACCCCTCACA
GACTAGGACCCTCAAATAAAGCTGTTTTATATC

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FIGURE 28

GGAAGCAGCGGGCAGCGGCCCGCGGGAGGCACCTCGGAGATCTGGGTGCAAAAGCCCAGGGTTAGGAACCGTAGG
C**ATG**CTGCGCCCCAAGGCTTTGACCCAGGTGCTAAGCCAAGCCAACACTGGAGGCGTCCAGAGCACCCTGCTGCT
GAATAACGAGGGATCACTGCTGGCCTACTCTGGTTACGGGGACACTGACGCCCGGGTCACCGCTGCCATAGCCAG
TAACATCTGGGCCGCCTACGACCGGAACGGGAACCAAGCGTTTAATGAAGACAATCTCAAATTCATCCTCATGGA
CTGCATGGAGGGCCGTGTAGCCATCACCCGAGTGGCCAACCTTCTGCTGTGTATGTATGCCAAGGAGACCGTGGG
CTTTGGAATGCTCAAGGCCAAGGCCCAGGCTTTGGTGCAGTACCTGGAGGAGCCCCTCACCCAAGTGGCGGCATC
T**TAA**CGGCATTGGTGGAAGCTGGGGTCAGAAAAGAGAAATGACCATTTGGAGGGGCGGGGCCTCCTAGAAGAACC
TTCTTAGACAATGGGGGGAGGATGGGACTTTGTTTTTTCCAAGAATAAACTTCAACTCCTGT

FIGURE 29

GGAGGAGCCGGGCGGGCTGGCGGGCGGCCGGGTGGCGGCGGCGGCATGGCGGAGCCGAGCGGGGCCGAGACGAGG
CCCCCCATTCGGGTCACCGTCAAGACCCCCAAGGACAAGGAGGAAATTGTGATCTGCGATCGAGCCTCGGTCAAG
GAGTTCAAAGAGGAAATCTCCCGGAGGTTTAAGGCTCAGCAGGATCAGCTGGTCCTGATCTTCGCAGGCAAGATC
CTCAAGGATGGGGACACACTGAACCAGCACGGAATCAAGGACGGGCTCACTGTCCATCTGGTCATCAAGACCCCT
CAGAAGGCTCAAGATCCAGCTGCTGCCACTGCTTCTTCCCCCTCCACACCTGACCCTGCCTCAGCACCCTCCACC
ACGCCTGCTTCACCCGCCACCCCTGCCCAGCCCTCCACCTCTGGCAGTGCCTCTTCAGATGCTGGCAGTGGAAGC
CGGAGGAGCAGTGGTGGGGGGCCCTCTCCGGGGGCTGGGGAGGGATCCCCCAGTGCTACTGCGTCCATACTCTCT
GGCTTTGGGGGCATCCTGGGGCTGGGCAGCCTAGGCCTGGGCTCTGCCAACTTCATGGAGCTGCAGCAGCAGATG
CAGCGGCAGCTGATGTCCAATCCTGAGATGCTGTCACAGATCATGGAGAACCCCCTGGTCCAGGATATGATGTCT
AACCCTGATCTGATGCGTCACATGATTATGGCCAACCCCCAGATGCAGCAGTTGATGGAGCGGAACCCTGAGATC
AGCCACATGCTCAATAACCCTGAACTCATGAGGCAGACAATGGAGCTTGCTCGGAATCCAGCCATGATGCAAGAG
ATGATGCGGAACCAGGACCGGGCCCTGAGCAACCTTGAGAGCATCCCTGGAGGGTATAATGCCCTCCGCCGCATG
TACACGGACATCCAGGAGCCCATGTTCAGTGCTGCCCGGGAACAGTTTGGCAACAATCCCTTCTCTTCCCTGGCC
GGGAACTCCGACAGCTCATCCTCCCAGCCTCTGCGGACTGAGAATCGAGAGCCCCTCCCTAACCCCTGGAGCCCC
TCGCCCCCCACCTCCCAGGCCCCCGGGTCCGGTGGGGAGGGCACCGGAGGATCGGGGACCAGCCAGGTGCACCCG
ACAGTCTCGAACCCCTTTGGGATCAATGCGGCTAGCCTGGGGTCAGGGATGTTCAATAGCCCAGAAATGCAAGCC
CTCCTCCAGCAGATCTCTGAGAACCCCCAGCTGATGCAGAATGTGATCTCAGCACCCTACATGCGCAGCATGATG
CAGACGCTTGCCCAGAACCCCGACTTTGCTGCTCAGATGATGGTGAATGTGCCGCTCTTCGCGGGGAACCCCCAA
CTGCAGGAGCAGCTCCGCCTGCAGCTCCCAGTCTTCCTGCAGCAGATGCAGAACCCAGAGTCACTCTCCATCCTT
ACCAATCCCCGAGCCATGCAGGCATTGCTGCAGATCCAGCAGGGACTACAGACCTTGCAGACCGAGGCCCCTGGG
CTGGTACCCAGCCTTGGCTCCTTTGGGATATCCCGGACCCCAGCACCCTCAGCAGGCAGCAACGCAGGGTCTACG
CCCGAGGCCCCCACTTCCTCACCAGCCACGCCAGCCACATCTTCTCCAACAGGGGCTTCCAGCGCCCAGCAGCAA
CTCATGCAGCAGATGATCCAGCTTTTGGCTGGAAGTGGAAACTCACAGGTGCAGACGCCAGAAGTGAGATTTCAG
CAGCAGCTGGAGCAGCTCAACTCCATGGGCTTCATCAATCGTGAGGCTAACCTGCAGGCCCTGATTGCCACAGGA
GGGGACATCAACGCAGCTATCGAGAGACTGCTGGGCTCCCAGCTCTCCTAATCCCTCGGCCCATGCCTCCTGCCT
CTCCCCTCCCTCGATGTCAGCATTCGGTTCTTCTGTCAATCCTTACCCTCTGCAGCTTGTCCTCCCTTCCGTCTT
CTCCCTCATCCTTTCCAAACAGCAGGGTGACTTTAGAGGCATGGGCTCCAACCCCTTAGCTCTGTCTGAGAATTA
TGGTTTTACTGCTACGTCTCTAACAGACTCTTCTCTCCTGGTCTCCTTGAGCAGTGCTACTTAAACAGTTTTCAC
AGTTTCATTGATTGACTCTACCTCCTTGCCCCACACCACTTTTGCAATCTTTAAACTTTCAGTGGCTGTGCAGAG
TCGAGGGAGGAACCAGCTCTCTGGTTTACTGGAACATAGTCTTCCATCTATACCACTAGGGTTTTGTCTTATGTT
TACTTTTGGTAACTCTCTTCCTTCTTTTTCTCCCTACCCCCCAACCCCTAGCCCAACCAATGCTAGAATTTCTTG
CTCTGAAGGAGGAGCAGGTGAAACAGGTGGTAATTTTCCTTCTCGGCCCCTATTCTGGTTCATTCAGCACTTTTT
GGTGGGAACTGTTGGAAATTCCAGGGTAAGGAGGAAGATGCCTGTTCTCCCTGTCTGAAGAGGGAGATGAGACAG
CTCTCTGGACAGGAATTAACAAACGCTGGAGCAGCCCAGAGGAAATTCGTGTGAAAGAGGAGGGAATGAGATTAT
TCGGAGGAAGGGAATGGGGGAGACAGCCTGAGTAAAAGGCTTGGAAGTTGGAATTAACAGTGGGGAGCAGAAGCA
CTCATAGCTCTTTTAGGCAGAAGAATCCAGGCCCGAGCTGGCAGAAGAGACTTAGAGATGCTAATGGAATTTAAA
CTGAAAAAAGGAGCCCAATGAAGCTAAGCGCCACGCCCCACAAGGGGTCATATTGGCTTTAGTTCCTCAAGCATA
TGTGCTTATATGCACACACACACACATTTCCATGGACCCAGGTCTTGCTTGTGTCCCCAGGCACCAGTAGTTTGA
GCCCCCCTCAAAAGACATGAAGGGGGTTGGGGTCTGTGTGAGTAGTGGGGAGGTGCATGTGTATCCACATGTGTG
CATACACTCTTAAGTTGGGTGGGAAGTGGATTCCTTGTTGGTTTCTGGTTCAGAGTGCTCTCCCACCACCAGAGA
CAAGTGGGTAAAAAGGTCAGTCCATTGCAGGAATATATATCCGGGAGAGCTAGGTCCCTTGGGGCTCTGGATGCT
GGGTAACCCAGAGGTAATGTGGGTACCCTTTCTGAAGCTGTCAGGGCTGTGACTAGCACCCTTATCACCCCTCAC
TGCCTTGTGGGAATAGTAGAGGGTTTTTTTCCTCCAGAGCCCCTGGCCTTTCAGTTCTTAACTATTTCCCTCCAG
GCCAGAAAGTTTTCTTTGAGGAAGGAGAGGAGAGGGTGGCAATGATGCCTTTGATCTGGAATTGGACATTTCTCT
GTCAGAGCACAGAGGAGGCTCATATCACCTCTTCCCTCTCCTACTTGGCCCAGCTGCTTGGAGGACCGACCCCAT
GGCTGAGAATATGACGGCAAGAGGAACAGAGTTTGCTCCAAGTGGGAAAGGGTCCCAAGCAGTCCAGAGAAGATG
TCTGTGTGGCTTTCCCTCCCTGCCTCCCCCAGCTCCCACACTGGCCTTTGTAAATAAATGGCGTGGTCTTTGTTG
TG

FIGURE 30

GCTCTCTTCCTGTCTTTGTGGCTCCGGAAAGGCGTTTGGGATGCCAACGATGAGGCTGCTGTCATTTGTGGTGTT
GGCTCTATTTGCTGTCACTCAAGCAGAGGAAGGAGCCAGGCTTTTGGCTTCCAAATCACTGCTGAACAGATACGC
CGTGGAGGGACGAGACCTGACCTTGCAGTACAACATCTACAATGTTGGCTCAAGTGCTGCATTAGACGTGGAACT
ATCTGATGATTCCTTCCCTCCAGAAGACTTTGGCATTGTGTCTGGAATGCTCAATGTCAAATGGGACCGGATTGC
CCCTGCTAGCAATGTCTCCCACACTGTGGTCCTGCGCCCTCTCAAGGCTGGTTATTTCAACTTCACCTCGGCAAC
AATTACTTACCTGGCCCAGGAGGATGGGCCCGTTGTGATTGGCTCTACCAGTGCACCTGGACAGGGAGGAATCCT
GGCTCAGCGGGAGTTTGACAGGCGATTCTCCCCTCATTTTCTGGACTGGGCAGCCTTTGGGGTCATGACCCTTCC
CTCCATCGGCATCCCCCTGCTATTGTGGTACTCCAGCAAGAGGAAATATGACACTCCCAAAACGAAGAAGAACTG
ATTGGGGCTTCCACAGCCCTCCTCTCCCAAGAAATCCAGGCTCCTCTCCCAAGAAATCCAGGTGCTTTCCAGACT
CCAAAGGGTATCTTAAATGCAATCTCTTCTCTCTTAGCCCTTGGCCACTTTCTCCTGGATCCTGCCCTGCTCTCA
GCCATAGTGAAGGACCAGCCCTAGGAGTCTGCGAGAGCCTCCTTGGTTCCATCGTGAAGCCATAAACAGGAATGC
CTTTGGCAATAGCCTTGAGCCTAGAGGGCCCTCTGATGCCCCACTGAGGTGCTGTTGGTTTATTGCTGGCAACGT
GAATTCTCTCAGGGGTCTAGGAGGGGCATTTTGGAGACTGCCTGACACCACCCCTATCCCCTGCCTCCCCCTCTC
AGAAGAGGGTGGAAGATGAAATGAAAGCTATGGGACTCTTGGAGGATACCCAGTGTCTATTCTGGGTTAGAGAAG
TGCTTACTAAGGGGTTTTCTAATAAAAACAAATGCCACATTG

FIGURE 31A

GAGACCAACGCGTGCGGGCCGAACCCCTCCCCCCGCCTTCCCCCAACAATACAGGACGCCGGGGTCCGCGCCGCG
TCCTCCCTGGTCCCCCCGTCCGATTATGTCTCGGATCGAATCCCTCACGCGGGCGCGGATCGACCGGAGCAGAGA
GCTGGCGAGCAAGACCCGGGAAAAGGAGAAA**ATG**AAGAAAGCCAAGGATGCCCGCTATACAAATGGGCACCTCTT
CACCACCATTTCAGTTTCAGGCATGACCATGTGCTATGCCTGTAACAAGAGCATCACAGCCAAGGAAGCCCTCAT
CTGCCCAACCTGCAATGTGACTATCCACAACCGCTGTAAAGACACCCTCGCCAACTGTACCAAGGTCAAGCAGAA
GCAACAGAAAGCGGCCCTGCTGAAGAACAACACCGCCTTGCAGTCCGTTTCTCTTCGAAGTAAGACAACCATCCG
GGAGCGGCCAAGCTCGGCCATCTACCCCTCCGACAGCTTCCGGCAGTCCCTCCTGGGCTCCCGCCGTGGCCGCTC
CTCCTTGTCTTTAGCCAAGAGTGTTTCTACCACCAACATTGCTGGACATTTCAATGATGAGTCTCCCCTGGGGCT
GCGCCGGATCCTCTCACAGTCCACAGACTCCCTCAACATGCGGAACCGAACCCTATCCGTGGAATCCCTCATTGA
CGAAGAGGTAATCTACAGTGAGCTGATGAGTGACTTTGAGATGGATGAGAAGGACTTTGCAGCTGACTCTTGGAG
TCTTGCTGTGGACAGCAGCTTCCTGCAGCAGCATAAAAAGGAGGTGATGAAGCAGCAAGATGTCATCTATGAGCT
AATCCAGACAGAGCTGCACCATGTGAGGACACTGAAGATCATGACCCGCCTCTTCCGCACGGGGATGCTGGAAGA
GCTACACTTGGAGCCAGGAGTGGTCCAGGGCCTGTTCCCCTGCGTGGACGAGCTCAGTGACATCCATACACGCTT
CCTCAGCCAGCTATTAGAACGCCGACGCCAGGCCCTGTGCCCTGGCAGCACCCGGAACTTTGTCATCCATCGCTT
GGGTGATCTGCTCATCAGCCAGTTCTCAGGTCCTAGTGCGGAGCAGATGTGTAAGACCTACTCGGAGTTCTGCAG
CCGCCACAGCAAGGCCTTAAAGCTCTATAAGGAGCTGTACGCCCGAGACAAACGCTTCCAGCAATTCATCCGGAA
AGTGACCCGCCCCGCCGTGCTCAAGCGGCACGGGGTACAGGAGTGCATCCTGCTGGTGACTCAGCGCATCACCAA
GTACCCGTTACTCATCAGCCGCATCCTGCAGCATTCCCACGGGATCGAGGAGGAGCGCCAGGACCTGACCACAGC
ACTGGGGCTAGTGAAGGAGCTGCTGTCCAATGTGGACGAGGGTATTTATCAGCTGGAGAAAGGGGCCCGTCTGCA
GGAGATCTACAACCGCATGGACCCTCGGGCCCAAACCCCAGTGCCTGGCAAGGGCCCCTTTGGCCGAGAGGAACT
TCTGAGGCGCAAACTCATCCACGATGGCTGCCTGCTCTGGAAGACAGCGACGGGGCGCTTCAAAGATGTGCTAGT
GCTGCTGATGACAGATGTACTGGTGTTTCTCCAGGAAAAGGACCAGAAGTACATCTTTCCTACCCTGGACAAGCC
TTCAGTGGTATCGCTGCAGAATCTAATCGTACGAGACATTGCCAACCAGGAGAAAGGGATGTTTCTGATCAGCGC
AGCCCCACCTGAGATGTACGAGGTGCACACAGCATCCCGGGATGACCGGAGCACCTGGATCCGGGTCATTCAGCA
GAGCGTGCGCACATGCCCATCCAGGGAGGACTTCCCCCTGATTGAGACAGAGGATGAGGCTTACCTGCGGCGAAT
TAAGATGGAGTTGCAGCAGAAGGACCGGGCACTGGTGGAGCTGCTGCGAGAGAAGGTCGGGCTGTTTGCTGAGAT
GACCCATTTCCAGGCCGAAGAGGATGGTGGCAGTGGGATGGCCCTGCCCACCCTGCCCAGGGGCCTTTTCCGCTC
TGAGTCCCTTGAGTCCCCTCGTGGCGAGCGGCTGCTGCAGGATGCCATCCGTGAGGTGGAGGGTCTGAAAGACCT
GCTGGTGGGGCCAGGAGTGGAACTGCTCTTGACACCCCGAGAGCCAGCCCTGCCCTTGGAACCAGACAGCGGTGG
TAACACGAGTCCTGGGGTCACTGCCAATGGTGAGGCCAGAACCTTCAATGGCTCCATTGAACTCTGCAGAGCTGA
CTCAGACTCTAGCCAGAGGGATCGAAATGGAAATCAGCTGAGATCACCGCAAGAGGAGGCGTTACAGCGATTGGT
CAATCTCTATGGACTTCTACATGGCCTACAGGCAGCTGTGGCCCAGCAGGACACTCTGATGGAAGCCCGGTTCCC
TGAGGGCCCTGAGCGGCGGGAGAAGCTGTGCCGAGCCAACTCTCGGGATGGGGAGGCTGGCAGGGCTGGGGCTGC
CCCTGTGGCCCCTGAAAAGCAGGCCACGGAACTGGCATTACTGCAGCGGCAACATGCGCTGCTGCAGGAGGAGCT
ACGGCGCTGCCGGCGGCTAGGTGAAGAACGGGCAACCGAAGCTGGCAGCCTGGAGGCCCGGCTCCGGGAGAGTGA
GCAGGCCCGGGCACTGCTGGAGCGTGAGGCCGAAGAGGCTCGAAGGCAGCTGGCCGCCCTGGGCCAGACCGAGCC
ACTCCCAGCTGAGGCCCCCTGGGCCCGCAGACCTGTGGATCCTCGGCGGCGCAGCCTCCCCGCAGGCGATGCCCT
GTACTTGAGTTTCAACCCCCCACAGCCCAGCCGAGGCACTGACCGCCTGGATCTACCTGTCACTACTCGCTCTGT
CCATCGAAACTTTGAGGACCGAGAGAGGCAGGAACTGGGGAGCCCCGAAGAGCGGCTGCAAGACAGCAGTGACCC
TGACACTGGCAGCGAGGAGGAAGGTAGCAGCCGTCTGTCTCCGCCCCACAGTCCACGAGACTTTACCAGAATGCA
GGACATCCCGGAGGAGACGGAGAGCCGCGACGGGGAGGCTGTAGCCTCCGAGAGC**TAA**GGGGGCCCCTCCCCCCT
GCCCCGTGCCCCACTGAAGAACATTACTGAGGGGGCTAACCTTGGGGACTCCAATTTGCCAATGATGAGGGAACA
TTTGAAAGAACTGCAAATTGTCCTTGCCAGCTCTTGGGATCCTTGGATACCTGGGGCCATTTAAGAAGCTAGGGG
AATTAGGCCACAACACCCCCTGGGACATCCGAAAGCTACACCACAGATGCCAGTGGTTCATGCCTTCTTCCCGCA
ACTTTAGGAAAATTTATTTATTTATTGTTTATTAGTTATGGGGGGAGAGGGGAGATTTAAAGGACCAGGGACATG
GGAACCAAGCCATAGGGATCAGAGGGCCTTGTCCTTGAACACTACTGGGGTATATTCAGGCTCATCCACGCAGCT
GCTGGGTTCTTGCCCTAACGGCCCTCCCCTGCAACATCCGTCTTGGAGGAGAGGCTGCAGCCACAGCACCCTACT
GCCCTTTAAATAAAGGAGGGCTGTGGGCAGGGCCATGTCCCTTTCTCCTCTCCCCTCAACCTCTTACTGCTGTTC

FIGURE 31B

TCCCTTTCTCCGTCCTTCATGGAAGCCCTGGGAGATAACCTGGCTTCCTGGAGTTGATGGAATAAAGGTTGGGGT
GGCCATAATGGTTTGTTGGGGGTGAGGGAAAAAACCCACAGGGACCAGAATGTTTTGTTGTTCTTTTGTTTTCTT
TTTTGTACCAAAGTCAACTGCACGTGTTTTATATTTTTAAGAGATCGTAGGCAATTAGAGATCGAAGCCTCCTAT
CTCCACATCTCTGAAGAAGTTGAGGGGTGGGGGAGAGAATGACTTCTGCCTTCATCTGCAGTAACGGGGGGACCT
ATACTGACCTCTTCCCCAGCCATTTAGAAACAAGTTCTAGGGTGGGTTGGAAAATCTCCAAGAGCCCTGACCTCA
TCTTCCACCTCAGCAACCATGACCTGAAACCTCAGCGTGAATTTGGGGGATTTTTCAGTGGAACCCTTGCCCCCA
AATGTCGACCAGCCCCCAAATGTCGAAGAATTTTCTTCTTGCCAATTTTGTTGTTTAAAAAAAAAATTCAGGGAA
AATTAAAAACCTGGAACTCCA

FIGURE 32A

CGGGTGGTTGAGTAGAAGCGGTCGCCATGTCCGCGGGGAGCGCGACACATCCTGGAGCTGGCGGGCGCCGCAGCA
AATGGGACCAACCAGCTCCAGCCCCACTTCTCTTCCTCCCGCCAGCGGCCCCAGGTGGGGAGGTCACCAGCAGTG
GGGGAAGTCCTGGGGGCACCACAGCTGCTCCTTCAGGAGCCTTGGATGCTGCTGCTGCTGTGGCTGCCAAGATTA
ATGCCATGCTCATGGCAAAAGGGAAGCTGAAACCAACTCAGAATGCTTCTGAGAAGCTTCAGGCTCCTGGCAAAG
GCCTAACTAGCAATAAAAGCAAGGATGACCTGGTGGTAGCTGAAGTAGAAATTAATGATGTGCCTCTCACATGTA
GGAACTTGCTGACTCGAGGACAGACTCAAGACGAGATCAGCCGACTTAGTGGGGCTGCAGTATCAACTCGAGGGA
GGTTCATGACAACTGAGGAAAAAGCCAAAGTGGGACCAGGGGATCGTCCATTATATCTTCATGTTCAGGGCCAGA
CACGGGAATTAGTGGACAGAGCTGTAAACCGGATCAAAGAAATTATCACCAATGGAGTGGTAAAAGCTGCCACAG
GAACAAGTCCAACTTTTAATGGTGCAACAGTAACTGTCTATCACCAGCCAGCACCCATCGCTCAGTTGTCTCCAG
CTGTTAGCCAGAAGCCTCCCTTCCAGTCAGGGATGCATTATGTTCAAGATAAATTATTTGTGGGTCTAGAACATG
CTGTACCCACTTTTAATGTCAAGGAGAAGGTGGAAGGTCCAGGCTGCTCCTATTTGCAGCACATTCAGATTGAAA
CAGGTGCCAAAGTCTTCCTGCGGGGCAAAGGTTCAGGCTGCATTGAGCCAGCATCTGGCCGAGAAGCTTTTGAAC
CTATGTATATTTACATCAGTCACCCCAAACCAGAAGGCCTGGCTGCTGCCAAGAAGCTTTGTGAGAATCTTTTGC
AAACAGTTCATGCTGAATACTCTAGATTTGTGAATCAGATTAATACTGCTGTACCTTTACCAGGCTATACACAAC
CCTCTGCTATAAGTAGTGTCCCTCCTCAACCACCATATTATCCATCCAATGGCTATCAGTCTGGTTACCCTGTTG
TTCCCCCTCCTCAGCAGCCAGTTCAACCTCCCTACGGAGTACCAAGCATAGTGCCACCAGCTGTTTCATTAGCAC
CTGGAGTCTTGCCGGCATTACCTACTGGAGTCCCACCTGTGCCAACACAATACCCGATAACACAAGTGCAGCCTC
CAGCTAGCACTGGACAGAGTCCGATGGGTGGTCCTTTTATTCCTGCTGCTCCTGTCAAAACTGCCTTGCCTGCTG
GCCCCCAGCCCCAGCCCCAGCCCCAGCCCCCACTCCCAAGTCAGCCCCAGGCACAGAAGAGACGATTCACAGAGG
AGCTACCAGATGAACGGGAATCTGGACTGCTTGGATACCAGCATGGACCCATTCATATGACTAATTTAGGTACAG
GCTTCTCCAGTCAGAATGAGATTGAAGGTGCAGGATCGAAGCCAGCAAGTTCCTCAGGCAAAGAGAGAGAGAGGG
ACAGGCAGTTGATGCCTCCACCAGCCTTTCCAGTGACTGGAATAAAAACAGAGTCCGATGAAAGGAATGGGTCTG
GGACCTTAACAGGGAGCCATGGTGAGTGTGATATAGCTGGGGGAACAGGGGAGTGGCTAAGACTGGTCTAAAGCT
ATTAGTTTTCTCAGCCGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCA
CCTAAGGTCAGGAGTTCAAGACCAGCTTGGCCAACATAGTGAAATCCCATCTCTACTAAAAATACAAAAACTAGC
GGGCATGGTGGTGGGCGCCTGTAATTCCAGCTACTCAGGGGGTTGAGGCAGGAGAATCGCTTCAACCTGGGAGGC
AGAGGTTGCAGTGAGCCAAGATCAGACCACTGCCCTCCAGCCTGGGCAATAGAGCAAGACTCCATCTCATAAATA
AATAAATACATAAATAAAGCTATTAATTTTCTAACCTGATGTTCATTCAGGTGTTTAATCCAACCTCTATAATCT
GTTGGCCAGTGAAAATACTTTTGGGCTGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGG
TGGGCGGATAACCTGAGGTCAGGAGTTTGAGACCAGCGTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAATA
GAAAAATTAAGCTGGGCATGGTGGTGCATGCCTGTAATTCCAGCGGCTTGGAAGGCTGAGGCAGGAGAATCACTT
GAACTTGGGAGGTGGAGGTTGCAGTGAGCCAAGATCACACCACTGCATTCCAGCCTGGGCACTAGAGTGAGACTC
TGTCTCAAAAAAAAAGAAAGAGAAAGAGAAAATAGTTTCTAAAAAATTGTATACAGACAACCTTTTATTTCCAAC
AAACGTGTGCCGAGAGAGAGAGAGAGAAAATAGTTTTAAAAAAATTGTATACAGACAACCTTTTGTTTCCAACCA
ACGTGTATCTAGAAAAGAGTTAGTCGACTTATTTTATACATAGCATCAGTGAATAGTAATGAGTGGTAGGTCATT
TCAAAATCCTGTTGCCTATATTATGTGAATACCAGGAGGTCATCTGATACGGACTTAATAAAGGTTGATTTTGCT
TTATATTGGGAGCTGAGCCACACCTCCCCTTATAACTCTATTGGTCAGTAATGGTCAGTTTGTGGCTGTTAGGAA
AATGTTGCCTTTTAGCATTCCAGAACTCTAAATCCTGTAGAGGTACATGGGATATTTTATTCTTTGCCTGTACTC
ATAAAAATGAACAGAAGAAAATACGTTTTTTTCTTTTCTTAACTTCTTTTCTTTTAACTCTTTAAAAGGTGAAAT
ATCAGCCCTCAAGAGACTCACTTGCTAACTTTCCTTTTTTTCTTTTTTTTTCTTTTTTTGTGTTTCTTTTTTCTT
TCTCTGTTTTCTTACATGGTTCTGGTGGATTCACATTTGCTGATGCTGGTGCTGTTTTTCGTGTGATCTTCAACG
TTTTTGGGTGACCATTGACCCTGTGACCTCAAAATGGTGTCCAACTAACCACTTAAAATTAACATCTTTTTTTTA
ATTAACGAATTTATGGTATTTTTTTTTTTCCCTTGGCGGGGATGGGGTTGGGGTTGTTTTTTCTCTATTCTAGAT
TATCCAGCCAAGAAGATGAAAACTACAGAGAAGGGATTTGGCTTGGTGGCTTATGCTGCAGATTCATCTGATGAA
GAGGAGGAACATGGAGGTCATAAAAATGCAAGTAGTTTTCCACAGGGCTGGAGTTTGGGATACCAATATCCTTCA
TCACAACCACGAGCTAAACAACAGATGCCATTCTGGATGGCTCCCTAGGAAACAGTGGAACAGAGTTTTGACCCT
CAGTGACTCTTCTTAGCAATAATGCATGCATTTGATTTAACAAGACTCTGGGGCCTGTGCTGGGAACCATCTGGA
CCTTTGCAGAAGTTAGAGATTCAGTGCCCCCCTTTCTTAAAGGGGTTCCTTAACAACCACAAAAATCCTTATTTC

FIGURE 32B

TGCAGTGGCATAGAATCTGTTAAAATTTAATTAGAATCACAAATTTATCTCAGAAGCTTTTTAACAGTTGGTGAA
ATGTGCTTGTCCAACAAAGCATCCTAACAGGGTCGTTCCCATACACATTTGACCTGGTCAGCCTTTTCCAGGTGA
ATAGCCCCAGTTCTGACATAAAGAAAGTTTTATTTGTATTTTACTACTGTTTGGTCAATTTTGATATATAACTGG
TTACAAACAGAGCCTTACTATTTATTAGTGGGGAAATGATTTTAAGACCGTCCTTTTCAGTATTTAATTCTGACA
GATCTGCATCCCTGTTTTGTTTTGGATTATTTCTGTTTTGGAAAATGCTGTCTCATTTAAAACTGTTGGATATAG
CTGGATCCTGGATAGGAAAATGAAATTATTTTTTCATTGTGTTTTTTAATTGGGGTGATCCAAAGCTGGCACCTT
CAGGCACATTGGTCTCATAGCCATTACTGTTTTTATTGCCCTTCTAAGATCCTGTCTTCAGCTGGGTCAGAGAAA
ACTTCTTGACTAAAACTGGTCAGAACTCATCACAGAAATGAAATACAGTGGTCTCTCTCTCCCAGAACTGGTTGC
AGCTAAAACAGAGAGATCTGACTGCTGGCTATAGGATTTTGGACTTAATGACTGAAATTGCAAATTGTCCTTTTT
CTTGGCATTACAGATTTTGCCAAAATAACTTTTTGTATCAAATATTGATGTGTGAAAGTGAAGGAGCTAGTCTGC
TGAACCAGGAATAGTTTGAGATATTGAACTGTCATTTTTGCACATTTGAATACTTTGCAGGCTGGCTTTGTATAA
ACTTATCCTCTGGTTTCCTATATGTTGTAAATATTTAGACCATAATTTCATTATAAATAAATCTATAAATATTC

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FIGURE 33

CAGGACCAGTCTGACTGCACCTGCATCCTTAGCTCAGCGCATCCCCGGAGCATCTTAAGAGCTGAGCGCAGCTGA
CAACTAGGGGCCGGACCGTCGCAGGAGGCGTCCGCTGGATACCTTCCCCCTTCCCTGACCTAGAGCTCTACAGCT
GCTGCCTCGGTACTGACCGAGGGTTCCCAGAGCTGTCTCACCATTGCAAAAACGTTATAGCAACAGCCTCTGATT
ACGAC**ATG**GCTGAGATCACCAATATCCGACCTAGCTTTGATGTGTCACCGGTGGTGGCCGGCCTCATCGGGGCCT
CTGTGCTGGTGGTGTGTGTCTCGGTGACCGTCTTTGTCTGGTCATGCTGCCACCAGCAGGCAGAGAAGAAGCAGA
AGAACCCACCATACAAGTTTATTCACATGCTCAAAGGCATCAGCATATACCCAGAGACCCTCAGCAACAAGAAGA
AAATCATCAAAGTGCGGAGAGACAAAGATGGTCCTGGGAGGGAAGGTGGACGTAGGAACCTGTTGGTGGACGCAG
CAGAGGCTGGCCTGCTAAGCCGAGACAAAGATCCCAGGGGGCCTAGCTCTGGATCTTGTATAGACCAATTACCCA
TCAAAATGGACTATGGGGAAGAACTAAGGAGCCCTATTACAAGCCTGACCCCTGGGGAGAGCAAAACCACCTCTC
CATCATCTCCAGAGGAGGATGTCATGCTAGGATCCCTCACCTTCTCAGTGGACTATAACTTCCCGAAAAAAGCCC
TGGTGGTGACAATCCAGGAGGCCCATGGGCTGCCAGTGATGGATGACCAGACCCAGGGATCTGACCCCTACATCA
AAATGACCATCCTTCCTGACAAACGGCATCGGGTGAAGACCAGAGTGCTGCGGAAGACCCTGGACCCTGTGTTTG
ACGAGACCTTCACCTTCTATGGCATCCCCTACAGCCAGCTGCAGGACCTGGTGCTGCACTTCCTTGTCCTCAGCT
TTGACCGCTTCTCTCGGGATGATGTCATTGGCGAGGTCATGGTGCCACTGGCAGGGGTGGACCCCAGCACAGGCA
AGGTACAACTGACCAGGGACATCATCAAAAGGAATATCCAGAAGTGCATCAGCAGAGGGGAGCTCCAGGTGTCTC
TGTCATATCAGCCTGTGGCACAGAGAATGACAGTGGTGGTCCTCAAAGCCAGACACTTGCCGAAGATGGATATCA
CCGGTCTCTCAGGTAATCCTTATGTCAAGGTGAACGTCTACTACGGCAGAAAGCGCATTGCCAAGAAGAAAACCC
ATGTGAAGAAGTGCACTTTGAACCCCATCTTCAATGAATCTTTCATCTACGACATCCCCACTGACCTCCTGCCTG
ATATCAGCATCGAGTTCCTCGTTATCGACTTCGATCGCACCACCAAGAATGAGGTGGTGGGGAGGCTGATCCTGG
GGGCACACAGTGTCACAGCCAGTGGTGCTGAACACTGGAGAGAGGTCTGCGAGAGCCCCCGCAAGCCTGTGGCCA
AGTGGCACAGTCTGAGCGAGTAC**TAA**TCCTGTTCTTCTCTCCTCTAATCCCCGGGGGCCAAGCTGGGGAGGGATG
TGGAGGGGAAAAAGATGACAGAGAAGTGGACTCCAAACCTCATTTTAGTTGTAGAAGAAAATTTCTTACAAAACA
AATTCCACAAAGAACACCCTATATGACCACAGCTGCAGATCAGTTCTTAGCAATGATGTTTTTTTTTCTGCTTTG
CAAGGCGCTAGAATCTTTTATTTTACTTTATTTTTTTTGAGGTGGAGTTTCGCTCTTGTTGCCCGGGCTGGAGTG
CAATGGTGAGATCTCAACTCACTGCAACCTCTGCCCTCCAGGTTCAAGTGATTCTCCTCCCTCAGCCTCCCAAGT
AGCTGGGATTACAGGCACCCACGAGCATGCCCGGCTAATTTTTTGTATTTTCAGTAGAGATGGGTTTCACCATGT
TGGCCAGGCTGGTCTCGAATTCCAGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGG
TGCGAGCCACCGTGCCCGGCCTCTGGTTTTGTTTTGTTTTTTTTTTTTAATGGGGGACAAAAGAGAGGGAAAGAC
CCCTATAAATCTATATATAACAATGTAACCATATACTTGCATGTCTAATACAAACTGAAGAAATTAGCCTAACTG
CCAATATCAAGTTGCAGATTTTAATCCATGGAAATTGTGTTTTGTGCTGAATTGTATTTGCTGATTACCTGAAAT
TGGCTTCTTTTTATTGGGCTTCTCTGGAGAATTTCTCCCACTCCCCACCTCTGCAGAAGAAAATTTTGCTCTTAT
AAAACCTCATGTTTTCATCATTCCCATCTTTTCTTTTTATTGCCTCTTATATCTCTGCTCTTTGACCTCAAGGTC
TAGAGGTCTGCAGTAAGCCAAGAAACAAAGGTGGGGTGGATGAGGCAAGGTTTGCAGGAGAAAGAGGAATTGAGA
AATGGGGTATTTTTGCTATCAGCTCTTCTGCTATGAAGTAGTAAAAGGCAGTCTATAATTAACTGACAGACCTAA
CTGAAGCACAGAGAATACATCAGACTTATGCATCCAAGACATCAGAACTTGGATTTTATCAAACTTGATGACTTC
TCTAAAAGGAGCTTTGGAAACTTCAAATTCAGCTATAGGATAGTACCAATGAACACATCCAGCTGATCCCAAAAG
CTGTTTTCAGGTATAAGGACAAGGAGAGGAGACAAGTGACGACAGCCATTCCCCTTTGCAGCTATCTACTGTAGT
GACAGCCATTTCTTGGTTGATGGGTTGGAAGTCATCAGAGGTTTGAAGAATTACACTGGCCTTTGTTTTTCTGGA
AATGCCGACCATGGAGATGCTTTAGAGTCTTCTCAAATAGCTTAGATGTTGTAATGAGGTTAGCTTTGCTTCATA
AAACAGGGGCCCTCAGAAGTTCTCCTTAAATTTTTCAATAAAAATTTAGCTCTT

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FIGURE 34

AGAAATCTTCAGCCAAACAGCTGCAGGAAGTAGAGAAGGTTAAACCCCAGAGTGAGAAAGTTCATCAGACTCTGA
TTCTGGACCCAGCACAGAGGAAGAGACTCCAGCAGCAGATGCAGCAGCACGTTCAGCTCTTGACCCAAATCCACC
TTCTTGCCACCTGCAACCCCAACCTCAATCCGGAGGCCACTACCACCAGGATATTTCTTAAAGAGCTGGGAACCT
TTGCTCAAAGCTCCATCGCCCTTCACCATCAGTACAACCCCAAGTTTCAGACCCTGTTCCAACCCTGTAACTTGA
TGGGAGCTATGCAGCTGATTGAAGACTTCAGCACACATGTCAGCATTGACTGCAGCCCTCATAAAACTGTCAAGA
AGACTGCGAATGAATTTCCCTGTTTGCCAAAGCAAGTGGCTTGGATTCTGGCCACAAGCAAGGTTTTCATGTATC
CAGAGTTACTTCCAGTGTGTTCCCTGAAGGCAAAGAATCCCCAGGATAAGATCGTCTTCACCAAGGCTGAGGACA
ATTTGTTAGCTTTAGGACTGAAGCATTTTGAAGGAACTGAGTTTCCTAATCCTCTAATCAGCAAGTACCTTCTAA
CCTGCAAAACTGCCCACCAACTGACAGTGAGAATCAAGAACCTCAACATGAACAGAGCTCCTGACAACATCATTA
AATTTTATAAGAAGACCAAACAGCTGCCAGTCCTAGGAAAATGCTGTGAAGAGATCCAGCCACATCAGTGGAAGC
CACCTATAGAGAGAGAAGAACACCGGCTCCCATTCTGGTTAAAGGCCAGTCTGCCATCCATCCAGGAAGAACTGC
GGCACATGGCTGATGGTGCTAGAGAGGTAGGAAATATGACTGGAACCACTGAGATCAACTCAGATCGAAGCCTAG
AAAAAGACAATTTGGAGTTGGGGAGTGAATCTCGGTACCCACTGCTATTGCCTAAGGGTGTAGTCCTGAAACTGA
AGCCAGTTGCCACCCGTTTCCCCAGGAAGGCTTGGAGACAGAAGCGTTCATCAGTCCTGAAGCCCCTCCTTATCC
AACCCAGCCCCTCTCTCCAGCCCAGCTTCAACCCTGGGAAAACACCAGCCCGATCAACTCATTCAGAAGCCCCTC
CGAGCAAAATGGTGCTCCGGATTCCTCACCCAATACAGCCAGCCACTGTTTTACAGACAGTTCCAGGTGTCCCTC
CACTGGGGGTCAGTGGAGGTGAGAGTTTTGAGTCTCCTGCAGCACTGCCTGCTGTGCCCCCTGAGGCCAGGACAA
GCTTCCCTCTGTCTGAGTCCCAGACTTTGCTCTCTTCTGCCCCTGTGCCCAAGGTAATGCTGCCCTCCCTTGCCC
CTTCTAAGTTTCGAAAGCCATATGTGAGACGGAGACCCTCAAAGAGAAGAGGAGTCAAGGCCTCTCCCTGTATGA
AACCTGCCCCTGTTATCCACCACCCTGCATCTGTTATCTTCACTGTTCCTGCTACCACTGTGAAGATTGTGAGCC
TTGGCGGTGGCTGTAACATGATCCAGCCTGTCAATGCGGCTGTGGCCCAGAGTCCCCAGACTATTCCCATCACTA
CCCTCTTGGTTAACCCTACTTCCTTCCCCTGTCCATTGAACCAGTCCCTTGTGGCCTCCTCTGTCTCACCCTTAA
TTGTTTCTGGCAATTCTGTGAATCTTCCTATACCATCCACCCCTGAAGATAAGGCCCACGTGAATGTGGACATTG
CTTGTGCTGTGGCTGATGGGGAAAATGCCTTTCAGGGCCTAGAACCCAAATTAGAGCCCCAGGAACTATCTCCTC
TCTCTGCTACTGTTTTCCCGAAAGTGGAACATAGCCCAGGGCCTCCACTAGCAGATGCAGAGTGCCAAGAAGGAT
TGTCAGAGAATAGTGCCTGTCGCTGGACCGTTGTGAAAACAGAGGAGGGGAGGCAAGCTCTGGAGCCGCTCCCTC
AGGGCATCCAGGAGTCTCTAAACAACCCTACCCCTGGGGATTTAGAGGAAATTGTCAAGATGGAACCTGAAGAAG
CTAGAGAGGAAATCAGTGGATCCCCTGAGCGTGATATTTGTGATGACATCAAAGTGGAACATGCTGTGGAATTGG
ACACTGGTGCCCCAAGCGAGGAGTTGAGCAGTGCTGGAGAAGTAACGAAACAGACAGTCTTACAGAAGGAAGAGG
AGAGGAGTCAGCCAACTAAAACCCCTTCATCTTCTCAAGAGCCCCCTGATGAAGGAACCTCAGGGACAGATGTGA
ACAAAGGATCATCAAAGAATGCTTTGTCCTCAATGGATCCTGAAGTGAGGCTTAGTAGCCCCCCAGGGAAGCCAG
AAGATTCATCCAGTGTTGATGGTCAGTCAGTGGGGACTCCAGTTGGGCCAGAAACTGGAGGAGAGAAGAATGGGC
CAGAAGAAGAGGAAGAAGAGGACTTTGATGACCTCACCCAAGATGAGGAAGATGAAATGTCATCAGCTTCTGAGG
AATCTGTGCTTTCTGTCCCAGAACTCCAGGTGAGAGCTGGAGAATATTCTCAAGTATTTCGTGGACTCAGTAATA
TGTATCACTTATTGATATGCCACCTGCTTGCTTGCTGCACTATGGATAGTCCTAAAATCATTTGTATTTGATTTG
TGAATGCATTATGGGACATGATTGTGGAGTTGAGGTGAAATGAGATGGAAAGGATGAAATTTTACTTATTATATT
AAACTCGTTTACACATTAAA

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FIGURE 35

ATGAAATGACGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTACTTTTGCTTCACCTGAGACTGCTCCAG
AAGTGGAGACCAGCAGAACTCCACCAGGAGAGAGCATCAAAGCTGCTGGAAAAGGCCGGAACAATCATCGAGCTC
GCAACAAGCGGGGAAGTCGGGCTCGGGCCAGCAAGGACACCTCCAAGCTGCTGTTGCTGTATGATGAGGACATTC
TCGAGCGAGATCCACTCAGGGAGCAGAAGGACTTGGCCTTTGCCCAAGCTTATCTGACCAGGGTGCGAGAAGCCC
TACAACATATCCCTGGCAAGTATGAAGACTTCCTTCAAGTCATCTATGAATTTGAGTCAAGTACCCAGAGACGGA
CGGCTGTAGATCTCTACAAAAGCCTGCAAATTCTGCTCCAAGACTGGCCTCAGCTGTTGAAAGACTTTGCTGCTT
TCCTGTTACCTGAGCAAGCTCTGGCCTGTGGATTATTTGAGGAGCAGCAGGCTTTTGAGAAGAGCCGCAAGTTCC
TTCGGCAGCTGGAGATTTGCTTTGCAGAGAACCCCTCACACCACCAGAAGATTATCAAGGTCCTCCAAGGCTGTG
CAGACTGCCTTCCCCAGGAGATCACCGAGCTCAAGACACAGATGTGGCAGCTCCTCAAGGGCCACGACCACCTGC
AGGATGAGTTTTCTATCTTCTTTGACCACTTGCGCCCAGCAGCTAGCCGGATGGGTGACTTTGAAGAGATCAATT
GGACTGAGGAAAAGGAGTATGAGTTTGATGGCTTTGAAGAAGTGGCCCTGCCTGATGTGGAAGAAGAGGAGGAGC
CTCCCAAGATACCCACAGCCTCAAAGAACAAGAGGAAAAAAGAGATCGGGGTCCAAAATCATGATAAGGAGACTG
AATGGCCAGATGGGGCCAAGGACTGTGCCTGCTCCTGCCATGAAGGAGGTCCAGATTCCAAGCTGAAGAAGAGCA
AAAGGCGGAGCTGTAGCCACTGTAGCAGCAAGGTCTGTGACAGCAAATCCTACAAGAGCAAGGAGCCCCATGAGT
TGGTGGGCAGCAGCCCCCACCGAGAGGCTAGTCCTATGCCTGGTGCTAAGGAAGCTGGGCAGGGCAAGGATATGA
TGGAAGAGGAAGCCCCAGAGGAGCGGGAGAGCACTGAGGCCACCCAGAGCAGGACTGTCAGGACCACCAGAAAGG
GAGAGATGCCTGTTTCAGGATTGGCAGTGGGGAGCACTTTGCCATCCCCTCGAGAAGTGACTGTTACAGAACGGC
TCCTCCTGGATGGCCCACCACCTCATTCACCAGAGACTCCTCAATTTCCCCCCACAACTGGAGCTGTACTGTACA
CTGTTAAGAGAAACCAGGTTGGGCCTGAGGTTCGCTCCTGCCCCAAGGCATCCCCCAGACTTCAGAAAGAGAGGG
AGGGCCAAAAGGCAGTGAGTGAGTCAGAGGCTTTGATGCTGGTCTGGGATGCATCAGAAACTGAGAAATTGCCTG
GTACCGTGGAACCCCCTGCTTCCTTCCTGAGTCCTGTTTCCTCAAAGACCAGAGATGCAGGGAGAAGACATGTGT
CCGGGAAACCAGACACTCAAGAGAGATGGCTGCCCTCAAGCAGAGCTCGGGTGAAGACAAGAGACAGGACGTGCC
CTGTCCATGAATCTCCATCAGGAATTGACACCTCAGAGACTTCTCCCAAAGCCCCTAGAGGGGGTTTGGCTAAAG
ACAGTGGAACACAGGCCAAGGGTCCAGAGGGGGAGCAGCAGCCAAAGGCCGCAGAAGCTACGGTGTGTGCCAACA
ACAGCAAGGTCAGCTCCACTGGGGAAAAGGTTGTCCTGTGGACAAGGGAAGCTGACCGTGTGATCCTCACCATGT
GCCAGGAGCAAGGGGCACAGCCACAGACCTTCAACATCATCTCCCAGCAGCTGGGAAATAAGACCCCTGCTGAGG
TTTCCCACCGTTTTCGAGAACTCATGCAGCTCTTCCACACTGCCTGTGAAGCCAGCTCTGAGGATGAGGATGATG
CAACCAGTACCAGCAATGCAGACCAGCTGTCTGACCATGGGGACCTTCTGTCTGAAGAGGAGCTGGATGAATGAG
ACTCTGGGAATCATCTACACAGGACCAAACCCAACAGGCGCCCTGGCACCGGGGAGGGGGTAGTTGTACTCTGCT
TGTACAGTCCTTGAGCCCAGTTTACAGATCTGGAGAGCAGGAGGCCAGGACAAGGACAAAGGCTGGAGGATGGAG
TAGGACCCAGGGGCTCTGCCATCCTAGGCATCATTCAAGGTCTTTTATGAAGACTTTACAGATGTCCTCTGTAAA
TAGCATCGAGAGTGGAGTTCAGCTCCTTTCTCTACTTTTTTTTGGTCTGATGGCACATATTTATTGTTCTGTGGT
CTAATCACAGTGTTTCTAAATGTAAAAAGTGCATATGTTGGTGTAGCTAGTCCCGCGACATTGAGCTCCTCTGCA
TGAAGACACTGGGCTCCTGCATCCAGCTGTTTTTATTGCAAACTAGCTCCTTTCTCCCACACTGGGAACTTTAGT
CCACGAGGCTGTCACCACCCTGGTAGCACTGGGCCAGGCTTTGTAGCTCCTGCAGCAGCTCTGCTACGTCATCGT
GCTCCACTCCAGCATCCATGAAGCTGGCCCAGCGCCGCAAGTCGAGTTTGGTGAGGTCTCTGGCCAAGGCTTCCA
GGGTCTGGTGCAGGGACGAAGAGGAACACAGTGCCCCAAACACTGGGATGCTCTCCACTGCTGTGGAGGGAGAGG
AAACAGAGACCTGTAGATGGATGATTATTCTGCCCTGGGACTCGCCAAACTGATAAGGAAGTCCAACCTTAGTAG
ACTTGATTGTAAACTCAACAAATTTGGTGTATTGTCCCCTTAGTACACCAGTACTCCAGAGGAAGAATGCTTTTC
TTGGGAGCCATAGGGTGAATAAAGGAATGTTTAACTGTGG

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FIGURE 36

CCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTCGGTCGCCTAGTCTGGAGAA
CTAGTCCTCGACTCACGGTGAGGGAATGGACCGACACGGGTATTGTACCGCTGAGGGAAAGGAGCGGGACTCCGG
ACCTCCAGGAGTGCAAGGATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCTGGG
CGTTTTTTACACATGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAACCAGGTTCCAGTTGAGAGT
CCGAGAGCTATTTCCCGCACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCACTACAAC
ATCTCCCCCCCAGGATTTGGAGACTGTATTTCCCCATGGCCTTCCTCCTCGCTTTGTGATGCAGGTGAAGACATTC
AGTGAAGCTTGCCTGATGGTAAGGAAACCAGCCCTAGAACTTCTGCATTACCTGAAAAACACCAGTTTTGCTTAT
CCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCCTAAGTCTTTGCCATGTTATTCATTTC
TGTGCAAAACAGGACTGGCTGATACTACATATTCCAGATGCTCATCTTTGGGTGAAAAATTGTCGGGATCTTCTG
CAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAAGAATTTCAAAACTACA
AATGAGCGCTTCCTGAACCAGATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAGCACTGAGAAAGGG
AGTCCTCTGGGAGAAGTGGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAATTGTGCTG
AAAGAGCTAAAGAGGCAAAGTTCTTTGGGTATGTTTCACCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTGG
GGAAGAACCACTCTGAAAAGAGAAGATAAAAGCCCGATTGCCCCCGAGGAATTAGCACTTGTTCACAACTTGAGG
AAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTCGGCTTTGAGCCAGACTGGGTCTCTCTTTAAGCCC
CGGAAAGCCTATCTGCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTCCCATCCTG
GTTTCCAACTATAACCCAAAGGAATTTGAAAGTTGTATTCAGTATTATTTGGAAAACAATTGGCTTCAACATGAG
AAAGCTCCTACAGAAGAAGGGAAAAAAGAGCTGCTGTTCCTAAGTAACGCGAACCCCTCGCTGCTGGAGCGGCAC
TGTGCCTACCTCTAAGCCAAGATCACAGCATGTGAGGAAGACAGTGGACATCTGCTTTATGCTGGACCCAGTAAG
ATGAGGAAGTCGGGCAGTACACAGGAAGAGGAGCCAGGCCCTTGTACCTATGGGATTGGACAGGACTGCAGTTGG
CTCTGGACCTGCATTAAAATGGGTTTCACTGTGAATGCGTGACAATAAGATATTCCCTTGTTCCTAAAACTTTAT
ATCAGTTTATTGGATGTGGTTTTTCACATTTAAGATAATTATGGCTCTTTTCCTAAAAAATAAAATATCTTTCT

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FIGURE 37

CAAACAGCAGAAGGAGGTAGAGAAGGTTAAACCCCAGTGTAAGGAAGTTCATCAGACCCTGATTCTGGACCCAGC
ACAAAGGAAGAGACTCCAGCAGCAGATGCAGCAGCATGTTCAGCTCTTGACACAAATCCACCTTCTTGCCACCTG
CAACCCCAATCTCAATCCGGAGGCCAGTAGCACCAGGATATGTCTTAAAGAGCTGGGAACCTTTGCTCAAAGCTC
CATCGCCCTTCACCATCAGTACAACCCCAAGTTTCAGACCCTGTTCCAACCCTGTAACTTGATGGGAGCTATGCA
GCTGATTGAAGACTTCAGCACACATGTCAGCATTGACTGCAGCCCTCATAAAACTGTCAAGAAGACTGCCAATGA
ATTTCCCTGTTTGCCAAAGCAAGTGGCTTGGATCCTGGCCACAAGCAAGGTTTTCATGTATCCAGAGTTACTTCC
AGTGTGTTCCCTGAAGGCAAAGAATCCCCAGGATAAGATCCTCTTCACCAAGGCTGAGGACAATTTGTTAGCTTT
AGGACTGAAGCATTTTGAAGGGACTGAGTTTCTTAACCCTCTAATCAGCAAGTACCTTCTAACCTGCAAGACTGC
CCGCCAACTGACAGTGAGAATCAAGAACCTCAACATGAACAGAGCTCCTGACAACATCATTAAATTTTATAAGAA
GACCAAACAGCTGCCAGTCCTAGGAAAATGCTGTGAAGAGATCCAGCCACATCAGTGGAAGCCACCTATAGAGAG
AGAAGAACACCGGCTCCCATTCTGGTTAAAGGCCAGTCTGCCATCCATCCAGGAAGAACTGCGGCACATGGCTGA
TGGTGCTAGAGAGGTAGGAAATATGACTGGAACCACTGAGATCAACTCAGATCAAGGCCTAGAAAAAGACAACTC
AGAGTTGGGGAGTGAAACTCGGTACCCACTGCTATTGCCTAAGGGTGTAGTCCTGAAACTGAAGCCAGTTGCCGA
CCGTTTCCCCAAGAAGGCTTGGAGACAGAAGCGTTCATCAGTCCTGAAACCCCTCCTTATCCAACCCAGCCCCTC
TCTCCAGCCCAGCTTCAACCCTGGGAAAACACCAGCCCAATCAACTCATTCAGAAGCCCCTCCGAGCAAAATGGT
GCTCCGGATTCCTCACCCAATACAGCCAGCCACTGTTTTACAGACAGTTCCAGGTGTCCCTCCACTGGGGGTCAG
TGGAGGTGAGAGTTTTGAGTCTCCTGCAGCACTGCCTGCTATGCCCCCTGAGGCCAGGACAAGCTTCCCTCTGTC
TGAGTCCCAGACTTTGCTCTCTTCTGCCCCTGTGCCCAAGGTAATGATGCCCTCCCCTGCCTCTTCCATGTTTCG
AAAGCCATATGTGAGACGGAGACCCTCAAAAAGAAGGGGAGCCAGGGCCTTTCGCTGTATCAAACCTGCCCCTGT
TATCCACCCTGCATCTGTTATCTTCACTGTTCCTGCTACCACTGTGAAGATTGTGAGCCTTGGCGGTGGCTGTAA
CATGATCCAGCCTGTCAATGCGGCTGTGGCCCAGAGTCCCCAGACTATTCCCATCGCCACCCTCTTGGTTAACCC
TACTTCCTTCCCCTGTCCATTGAACCAGCCCCTTGTGGCCTCCTCTGTCTCACCCTTAATTGTTTCTGGCAATTC
TGTGAATCTTCCTATACCATCCACCCCTGAAGATAAGGCCCACATGAATGTGGACATTGCTTGTGCTGTGGCTGA
TGGGGAAAATGCCTTTCAGGGCCTAGAACCCAAATTAGAGCCCCAGGAACTATCTCCTCTCTCTGCTACTGTTTT
CCCCAAAGTGGAACATAGCCCAGGGCCTCCACCAGTCGATAAACAGTGCCAAGAAGGATTGTCAGAGAACAGTGC
CTATCGCTGGACCGTTGTGAAAACAGAGGAGGGAAGGCAAGCTCTGGAGCCGCTCCCTCAGGGCATCCAGGAGTC
TCTAAACAACTCTTCCCCTGGGGATTTAGAGGAAGTTGTCAAGATGGAACCTGAAGATGCTACAGAGGAAATCAG
TGGATTTCTTTGAGCTAGGAGAATAAGAGTCTGGAGACTGGGAGCCTTCACTTCGGCCTCCGATTGGTGGCGCAT
AGGGTGTAACCAATAGGAAACCCCTAAAGGGTACTTAAACCCCAGATTTTGCAACTGGGGCTCTTGAGCAGCTTG
CTTTAGCCTGCTCCCACTCTGTGGAATATACTTTTGCTTCAATAAATCTGTGCTTTTATTGC

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FIGURE 38

AGCGCAGT**ATG**GCGGGCGGGGCCCGGGAGGTGCTCACACTGCAGTTGGGACATTTTGCCGGTTTCGTGGGCGCGC
ACTGGTGGAACCAGCAGGATGCTGCGCTGGGCCGAGCGACCGATTCCAAGGAGCCCCCGGGAGAGCTGTGCCCCG
ACGTCCTGTATCGTACGGGCCGGACGCTGCACGGCCAGGAGACCTACACGCCGCGACTCATCCTCATGGATCTGA
AGGGTAGTTTGAGCTCCCTAAAAGAGGAAGGTGGACTCTACAGGGACAAACAGTTGGATGCTGCAATAGCATGGC
AGGGGAAGCTCACCACACACAAAGAGGAACTCTATCCCAAGAACCCTTATCTCCAAGACTTTCTGAGTGCAGAGG
GAGTGCTGAGTAGTGATGGTGTCTGGAGGGTCAAATCCATTCCCAATGGCAAAGGTTCCTCACCACTCCCCACCG
CTACAACTCCAAAACCACTTATCCCTACAGAGGCCAGCATCAGGGTCTGGTCAGACTTCCTCAGAGTCCATCTCC
ATCCCCGGAGCATCTGTATGATTCAGAAGTACAACCACGATGGGGAAGCAGGTCGGCTGGAGGCTTTTGGCCAAG
GGGAAAGTGTCCTAAAGGAACCCAAGTACCAGGAAGAGCTGGAGGACAGGCTGCATTTCTACGTGGAGGAATGTG
ACTACTTGCAGGGCTTCCAGATCCTGTGTGACCTGCACGATGGCTTCTCTGGGGTAGGCGCGAAGGCGGCAGAGC
TGCTACAAGATGAATATTCAGGGCGGGGAATAATAACCTGGGGCCTGCTACCTGGTCCCTACCATCGTGGGGAGG
CCCAGAGAAACATCTATCGTCTATTAAACACAGCTTTTGGTCTCGTGCACCTGACTGCTCACAGCTCTCTTGTCT
GCCCCTTGTCCTTGGGTGGGAGCCTGGGCCTGCGACCCGAGCCACCTGTCAGCTTCCCTTACCTGCATTATGATG
CC**TGA**GGCCAAGTGCCCATCTTGGTGTCTTCTTACAGGCCACTCTGCCCTTCCACTGCAGTGCCATCCTGGCTAC
AGCCCTGGACACAGTCACTGTTCCTTATCGCCTGTGTTCCTCTCCAGTTTCCATGGTTCATCTGGCTGACATGCT
GAGCTTCTGTGGGAAAAAGGTGGTGACAGCAGGAGCAATCATCCCTTTCCCCTTGGCTCCAGGCCAGTCCCTTCC
TGATTCCCTGATGCAGTTTGGAGGAGCCACCCCATGGACCCCACTGTCTGCATGTGGGGAGCCTTCTGGAACACG
TTGCTTTGCCCAGTCAGTGGTGCTGAGGGGTATAGACAGAGCATGCCACACAAGCCAGCTCACCCCAGGGACACC
TCCACCCTCTGCCCTTCATGCATGTACCACTGGGGAAGAAATCTTGGCTCAGTATTTACAACAGCAGCAGCCTGG
AGTCATGAGTTCTTCCCATCTGCTGCTGACTCCCTGCAGGGTGGCTCCTCCTTACCCCCACCTCTTCTCAAGCTG
CAGTCCACCGGGTATGGTTCTGGATGGTTCCCCCAAGGGAGCAGCAGTGGAGAGCATCCCAGTGTTTGGGGCACT
GTGTTCCTCTTCGTCCCTGCACCAGACCCTGGAAGCCTTGGCCAGAGACCTCACCAAACTCGACTTGCGGCGCTG
GGCCAGCTTCATGGATGCTGGAGTGGAGCACGATGACGTAGCAGAGCTGCTGCAGGAGCTACAAAGCCTGGCCCA
GTGCTACCAGGGTGGTGACAGCCTCGTGGACTAAAGTTCCCAGTGTGGGAGAAAGGAGCTAGTTTGCAATAAAAA
CAGCTGGATGCAGGAGCCCAGTGTCTTCATGCAGAGGAGCTCAATGTCGCGGGACTAGCTACACCAACATATGCA
CTTTTTACATTTAGAAACACTGTGATTAGACCACAGAACAATAAATATGTGCCATCAGACC

FIGURE 39A

CGCCTCCCCTCAGTTTGCCCCCTTTAGCCTTCCACCTTTCCCTTCTCCTCTCTCGCATTTCCGCCAGTCAGCTTA
CCCGCTGGCCGCCTCCTGACAAGCGGGAGGGATCCGCCGTGGACCCAGGGAAGCGGAGGAGCCTGGCGGCCACCC
CCTCTTCCCCACTTCCCTGCACTCTCATCGCTCTCGGCCTCGGCCTCGGCCTCCGACACGAGAAAGATGCTGGTT
TCGAGTTTTGGAGATCCTTGTTTTTTATGGAACACAGTTCTGTAAAATTTTCATAAGATTCCTTGGCAATAACAT
ACGCTTGTG**ATG**GACCCTAGAAATACTGCTATGTTAGGATTGGGTTCTGATTCCGAAGGTTTTTCAAGAAAGAGT
CCTTCTGCCATCAGTACTGGCACATTGGTCAGTAAGAGAGAAGTAGAGCTAGAAAAAAACACAAAGGAGGAAGAG
GACCTTCGCAAACGGAATCGAGAAAGAAACATCGAAGCTGGGAAAGATGATGGTTTGACTGATGCACAGCAACAG
TTTTCAGTGAAAGAAACAAACTTTTCAGAGGGAAATTTAAAATTGAAAATTGGCCTCCAGGCTAAGAGAACTAAA
AAACCTCCAAAGAACTTGGAGAACTATGTATGTCGACCTGCCATAAAAACAACTATTAAGCACCCAAGGAAAGCA
CTTAAAAGTGGAAAGATGACGGATGAAAAGAATGAACACTGTCCTTCAAAACGAGACCCTTCAAAGTTGTACAAG
AAAGCAGATGATGTTGCAGCCATTGAATGCCAGTCTGAAGAAGTCATCCGTCTTCATTCACAGGGAGAAAACAAT
CCTTTGTCTAAGAAGCTGTCTCCAGTACACTCAGAAATGGCAGATTATATTAATGCAACGCCATCTACTCTTCTT
GGTAGCCGGGATCCTGATTTAAAGGACAGAGCATTACTTAATGGAGGAACTAGTGTAACAGAAAAGTTGGCACAG
CTGATTGCTACCTGTCCTCCTTCCAAGTCTTCCAAGACAAAACCGAAGAAGTTAGGAACTGGCACTACAGCAGGA
TTGGTTAGCAAGGATTTGATCAGGAAAGCAGGTGTTGGCTCTGTAGCTGGAATAATACATAAGGACTTAATAAAA
AAGCCAACCATCAGCACAGCAGTTGGATTGGTAACTAAAGATCCTGGGAAAAAGCCAGTGTTTAATGCAGCAGTA
GGATTGGTCAATAAGGACTCTGTGAAAAAACTGGGAACTGGCACTACAGCGGTATTCATTAATAAAAACTTAGGC
AAAAAGCCAGGAACTATCACTACAGTAGGACTGCTAAGCAAAGATTCAGGAAAGAAGCTAGGAATTGGTATTGTT
CCAGGTTTAGTGCATAAAGAGTCTGGCAAGAAGTTAGGACTTGGCACTGTGGTTGGACTGGTTAATAAAGATTTG
GGAAAGAAATTGGGTTCTACTGTTGGCCTAGTGGCCAAGGACTGTGCAAAGAAGATTGTAGCAAGTTCAGCAATG
GGATTGGTTAATAAGGACATTGGAAAGAAACTAATGAGTTGTCCTTTGGCAGGTCTGATCAGTAAAGATGCCATA
AACCTTAAAGCCGAAGCACTGCTCCCCACTCAGGAACCGCTTAAGGCTTCTTGTAGTACAAACATCAATAATCAG
GAAAGTCAGGAACTTTCTGAATCCCTGAAAGATAGTGCCACCAGCAAAACTTTTGAAAAGAATGTTGTACGGCAG
AATAAAGAAAGCATATTGGAAAAGTTCTCAGTACGAAAAGAAATCATTAATTTGGAGAAAGAAATGTTTAATGAA
GGAACATGCATTCAGCAAGACAGTTTCTCATCCAGTGAAAAGGGATCTTATGAAACCTCAAAGCATGAAAAGCAG
CCTCCTGTATATTGCACTTCTCCGGACTTTAAAATGGGAGGTGCTTCTGATGTATCTACCGCTAAATCCCCATTC
AGTGCAGTAGGAGAAAGCAATCTCCCTTCCCCATCACCTACTGTATCTGTTAATCCTTTAACCAGAAGTCCCCCT
GAAACTTCTTCACAGTTGGCTCCTAATCCATTACTTTTAAGTTCTACTACAGAACTAATCGAAGAAATTTCTGAA
TCTGTTGGAAAGAACCAGTTTACTTCTGAAAGTACCCACTTGAACGTTGGTCATAGGTCAGTTGGTCATAGTATA
AGTATTGAATGTAAAGGGATTGATAAAGAGGTAAATGATTCAAAAACTACCCATATAGATATTCCAAGAATAAGC
TCTTCCCTTGGAAAAAAGCCAAGTTTGACTTCTGAATCCAGCATTCATACTATTACTCCTTCAGTTGTTAACTTC
ACTAGTTTATTTAGTAATAAGCCTTTTTTAAAACTGGGTGCAGTATCTGCATCAGACAAACACTGCCAAGTTGCT
GAAAGCCTAAGTACTAGTTTGCAGTCCAAACCATTAAAAAAAAGAAAAGGAAGAAAACCTCGGTGGACTAAAGTG
GTGGCAAGAAGCACATGCCGGTCTCCAAAAGGGCTAGAATTAGAAAGATCAGAGCTTTTTAAAAACGTTTCATGT
AGCTCACTATCAAATAGTAATTCTGAGCCAGCCAAGTTTATGAAAAACATTGGACCCCCTTCATTTGTAGATCAT
GACTTCCTTAAACGCCGATTGCCAAAGTTGAGCAAATCCACAGCTCCATCTCTTGCTCTCTTAGCTGATAGTGAA
AAACCATCTCATAAGTCTTTTGCTACTCACAAACTATCCTCCAGTATGTGTGTCTCTAGTGACCTTTTGTCTGAT
ATTTATAAGCCCAAAAGAGGAAGGCCTAAATCTAAGGAGATGCCTCAACTGGAAGGGCCACCTAAAAGGACTTTA
AAAATCCCTGCTTCTAAAGTGTTTTCTTTACAGTCTAAGGAAGAACAAGAACCCCCAATTTTACAGCCAGAAATT
GAAATCCCTTCCTTCAAACAAGGTCTGTCTGTGTCTCCTTTTCCAAAAAAGAGAGGCAGGCCTAAGAGGCAAATG
AGGTCACCAGTCAAGATGAAGCCACCTGTACTGTCAGTGGCTCCATTTGTTGCCACTGAAAGTCCAAGCAAGCTA
GAATCTGAAAGTGACAACCATAGAAGTAGCAGTGATTTCTTTGAGAGCGAGGATCAACTTCAGGATCCAGATGAC
CTAGATGACAGTCATAGGCCAAGTGTCTGTAGTATGAGTGACCTTGAGATGGAACCAGATAAAAAAATTACCAAG
AGAAACAATGGACAATTAATGAAAACAATTATCCGCAAAATAAATAAAATGAAGACTTTAAAGAGAAAGAAACTG
TTGAATCAGATTCTTTCAAGTTCTGTAGAATCAAGTAATAAAGGGAAAGTGCAATCCAAACTCCATAATACGGTA
TCAAGTCTTGCTGCCACATTTGGCTCTAAATTGGGCCAACAGATAAATGTCAGCAAGAAAGGAACCATTTATATA
GGAAAGAGAAGAGGTCGCAAACCAAAAACTGTCTTAAATGGTATTCTTTCTGGTAGTCCTACTAGCCTTGCTGTT
CTTGAGCAAACAGCTCAACAGGCAGCTGGGTCAGCATTAGGACAGATTCTTCCCCCATTACTGCCTTCATCTGCT

FIGURE 39B

AGTAGTTCTGAGATTCTTCCATCACCTATTTGCTCTCAGTCTTCTGGGACTAGTGGAGGTCAGAGCCCTGTAAGT
AGTGATGCAGGTTTTGTTGAACCCAGTTCAGTGCCATATTTGCATTTACACTCCAGACAGGGCAGTATGATTCAG
ACTCTTGCAATGAAGAAGGCCTCAAAGGGGAGGAGGCGGTTATCTCCTCCTACTTTGTTGCCAAATTCTCCTTCG
CACTTGAGTGAACTCACATCTCTAAAAGAAGCTACTCCTTCCCCAATCAGTGAGTCTCATAGTGATGAGACCATT
CCCAGTGATAGTGGAATTGGAACAGATAATAACAGCACATCAGACAGGGCAGAGAAATTTTGTGGGCAAAAAAAG
AGGAGGCATTCTTTTGAGCATGTTTCTCTGATTCCCCCTGAAACCTCTACAGTGCTAAGCAGTCTTAAAGAAAAA
CATAAACACAAATGTAAGCGCAGGAATCATGATTACCTCAGCTATGACAAGATGAAAAGGCAGAAACGAAAACGG
AAAAAGAAATATCCCCAGCTTCGAAATAGACAGGATCCAGACTTTATTGCAGAGCTGGAGGAACTAATAAGTCGC
CTAAGTGAAATTCGGATCACTCATCGAAGTCATCATTTTATCCCCCGAGATCTTCTGCCAACTATCTTTCGAATC
AACTTTAATAGTTTCTATACACATCCTTCTTTCCCCTTAGACCCTTTGCACTACATTCGAAAACCTGACTTAAAA
AAGAAAAGAGGGAGACCCCCTAAGATGAGGGAGGCAATGGCTGAAATGCCTTTTATGCACAGCCTTAGTTTTCCT
CTTTCTAGTACTGGATTCTATCCATCTTATGGTATGCCTTACTCTCCTTCACCCCTTACAGCTGCTCCCATAGGA
TTAGGTTACTATGGAAGGTATCCTCCCACTCTTTATCCACCTCCTCCATCTCCTTCTTTCACCACGCCACTTCCA
CCTCCTTCCTATATGCATGCTGGTCATTTACTTCTCAATCCTGCCAAATACCATAAGAAAAAGCATAAGCTACTT
CGACAGGAGGCCTTTCTTACAACCAGCAGGACTCCCCTCCTTTCCATGAGTACCTACCCCAGTGTTCCTCCTGAG
ATGGCCTATGGTTGGATGGTTGAGCACAAACACAGGCACCGTCACAAACACAGAGAACACCGTTCTTCTGAACAA
CCCCAGGTTTCTATGGACACTGGCTCTTCCCGATCTGTCCTGGAATCTTTGAAGCGCTATAGATTTGGAAAGGAT
GCTGTTGGAGAGCGATATAAGCATAAGGAAAAGCACCGTTGTCACATGTCCTGCCCTCATCTCTCTCCTTCAAAA
AGCTTAATAAACAGAGAGGAACAGTGGGTCCACCGAGAGCCTTCAGAATCTAGTCCATTGGCCTTGGGATTGCAG
ACACCTTTACAGATTGACTGTTCAGAAAGTTCTCCAAGCTTATCCCTTGGAGGATTCACTCCCAACTCTGAGCCA
GCCAGCAGTGATGAACATACAAACCTTTTCACAAGTGCAATAGGCAGCTGCAGAGTTTCAAACCCTAACTCCAGT
GGCCGGAAGAAATTAACTGACAGCCCTGGACTCTTTTCTGCACAGGACACTTCACTAAATCGGCTTCACAGAAAG
GAGTCACTGCCTTCTAACGAAAGGGCAGTACAGACTTTGGCAGGCTCCCAGCCAACCTCTGATAAACCCTCCCAG
CGGCCATCAGAGAGCACAAATTGTAGCCCTACCCGGAAAAGGTCTTCATCTGAGAGTACTTCTTCAACAGTAAAC'
GGAGTTCCCTCTCGAAGTCCAAGATTAGTTGCTTCTGGGGATGACTCTGTGGATAGTCTGCTGCAGCGGATGGTA
CAAAATGAGGACCAAGAGCCCATGGAGAAAAGTATTGATGCTGTGATTGCAACTGCCTCTGCACCACCTTCTTCC
AGTCCAGGCCGTAGCCACAGCAAGGACCGAACCCTGGGAAAACCAGACAGCCTTTTAGTGCCTGCAGTCACAAGT
GACTCTTGCAATAATAGCATCTCACTCCTATCTGAAAAGTTGACAAGCAGCTGTTCCCCCCATCATATCAAGAGA
AGTGTAGTGGAAGCTATGCAACGCCAAGCTCGGAAAATGTGCAATTACGACAAAATCTTGGCCACAAAGAAAAAC
CTAGACCATGTCAATAAAATCTTAAAAGCCAAAAAACTTCAAAGGCAGGCCAGGACAGGGAATAACTTTGTGAAA
CGTAGGCCAGGTCGACCTCGGAAATGTCCCCTTCAGGCTGTCGTATCAATGCAAGCATTCCAGGCTGCTCAGTTT
GTCAACCCAGAATTGAACAGAGACGAGGAAGGAGCAGCACTGCACCTCAGTCCTGACACAGTTACAGATGTAATT
GAGGCTGTTGTTCAGAGTGTAAATCTGAACCCAGAACATAAAAAGGGGTTGAAGAGAAAAGGTTGGCTATTGGAA
GAACAGACCAGAAAAAAGCAGAAGCCATTACCAGAGGAAGAAGAGCAAGAGAATAATAAAAGCTTTAATGAAGCA
CCAGTTGAGATTCCCAGTCCTTCTGAAACCCCAGCTAAACCTTCTGAACCTGAAAGTACCTTGCAGCCTGTGCTT
TCTCTCATCCCAAGGGAAAAGAAGCCCCCACGTCCCCCAAAGAAGAAGTATCAGAAAGCAGGGCTGTATTCTGAC
GTTTACAAAACTACAGACCCAAAGAGTCGATTGATCCAATTAAAGAAAGAGAAGCTGGAGTATACTCCAGGAGAG
CATGAATATGGATTATTTCCAGCGCCCATTCATGTTGTGTTTTTTGTTTCAGGAAAGTATCTAAGACAAAAGAGA
ATTGACTTCCAGCTTCCTTATGATATCCTTTGGCAGTGGAAACACAATCAGCTATACAAAAAGCCAGATGTCCCA
CTATATAAGAAAATTCGTTCAAATGTCTACGTTGATGTCAAACCCCTTTCTGGTTACGAAGCTACCACCTGTAAC
TGTAAGAAGCCAGATGATGACACCAGGAAGGGCTGTGTTGATGACTGCCTCAATAGAATGATCTTTGCTGAGTGT
TCCCCCAACACTTGCCCATGTGGCGAGCAATGCTGTAACCAGAGGATACAGAGGCATGAATGGGTGCAATGTCTA
GAACGATTTCGAGCTGAGGAAAAAGGTTGGGGAATCAGAACCAAAGAGCCCCTAAAAGCTGGGCAGTTCATCATT
GAATACCTAGGGGAGGTCGTCAGTGAACAGGAGTTCAGGAACAGGATGATTGAGCAGTATCATAATCACAGTGAC
CACTACTGCCTGAACCTGGATAGTGGGATGGTGATTGACAGTTACCGCATGGGAAATGAGGCCCGATTCATCAAC
CATAGCTGTGACCCAAATTGTGAAATGCAGAAATGGTCTGTTAATGGAGTATACCGGATTGGACTCTATGCTCTT
AAAGACATGCCAGCTGGGACTGAACTCACTTATGATTATAACTTTCATTCCTTCAATGTGGAAAAACAGCAACTT
TGTAAGTGTGGCTTTGAGAAATGTCGAGGAATCATCGGAGGCAAGAGTCAGCGTGTGAATGGACTCACCAGCAGC

FIGURE 39C

AAAAACAGCCAGCCCATGGCCACACACAAAAAATCTGGACGGTCAAAAGAGAAGAGAAAGTCTAAGCACAAGCTG
AAGAAAAGGAGAGGCCATCTCTCTGAGGAACCCAGTGAAAATATCAACACCCCAACTAGATTGACCCCCCAATTA
CAGATGAAGCCAATGTCCAATCGTGAAAGGAACTTTGTGTTAAAGCATCATGTATTCTTGGTCCGAAACTGGGAG
AAGATTCGTCAAAAACAGGAGGAAGTAAAGCACACCAGTGATAATATTCACTCAGCATCATTATATACCCGTTGG
AATGGGATCTGCCGAGATGATGGGAATATCAAGTCTGATGTCTTCATGACCCAGTTCTCTGCCCTGCAGACAGCT
CGATCTGTTCGAACAAGACGGTTGGCAGCTGCAGAGGAAAATATTGAAGTGGCTCGGGCAGCCCGCCTAGCCCAG
ATCTTCAAAGAAATTTGTGATGGTATCATCTCTTATAAAGATTCTTCCCGGCAAGCACTGGCAGCTCCACTTTTG
AACCTTCCCCCAAAGAAAAAGAATGCTGATTATTATGAGAAGATCTCTGATCCCCTAGATCTTATCACCATAGAG
AAGCAGATCCTCACTGGTTACTATAAGACAGTGGAAGCTTTTGATGCTGACATGCTCAAAGTCTTTCGGAATGCT
GAGAAGTACTATGGGCGTAAATCCCCAGTTGGGAGAGATGTTTGTCGTCTACGAAAGGCCTATTACAATGCCCGG
CATGAGGCATCAGCCCAGATTGATGAGATTGTGGGAGAGACAGCAAGTGAGGCAGACAGCAGTGAGACCTCAGTC
TCTGAAAAGGAGAATGGGCATGAGAAGGACGACGATGTTATTCGCTGTATCTGTGGCCTCTACAAGGATGAAGGT
CTCATGATCCAGTGTGACAAGTGCATGGTATGGCAGCACTGTGATTGTATGGGAGTGAACTCAGATGTGGAGCAC
TACCTTTGTGAGCAGTGTGACCCAAGGCCTGTGGACAGGGAGGTTCCCATGATCCCTCGGCCCCACTATGCCCAA
CCTGGCTGTGTCTACTTCATCTGTTTGCTCCGAGATGACTTGCTGCTTCGTCAGGGTGACTGTGTGTATCTGATG
AGGGATAGTCGGCGCACCCCTGATGGCCACCCGGTCCGTCAGTCCTATCGACTGTTATCTCACATTAACCGAGAT
AAACTTGACATCTTTCGCATTGAGAAGCTTTGGAAGAATGAAAAAGAGGAACGGTTTGCCTTTGGTCACCATTAT
TTCCGTCCCCACGAAACACACCACTCTCCATCCCGTCGGTTCTATCATAATGAACTATTTCGGGTGCCACTCTAT
GAGATCATTCCCTTGGAGGCTGTAGTGGGGACCTGCTGTGTGTTGGACCTTTATACGTATTGTAAAGGGAGACCC
AAAGGAGTAAAGGAGCAAGATGTGTACATCTGTGATTATCGGCTTGACAAGTCAGCACACCTGTTTTACAAGATC
CACCGGAACCGCTATCCTGTCTGCACCAAACCCTATGCTTTTGATCACTTCCCCAAGAAGCTCACTCCCAAAAAA
GATTTCTCGCCTCATTACGTCCCAGACAACTACAAGAGGAATGGAGGACGATCATCCTGGAAGTCTGAGCGCTCA
AAGCCACCCCTAAAAGACTTGGGCCAGGAGGATGATGCTCTACCCTTGATTGAAGAGGTTCTAGCCAGTCAAGAG
CAAGCAGCCAATGAGATACCCAGCCTGGAGGAGCCAGAACGGGAAGGGGCCACTGCTAACGTCAGTGAGGGTGAA
AAAAAAACAGAGGAAAGTAGTCAAGAACCCCAGTCAACCTGTACCCCTGAGGAACGACGGCATAACCAACGGGAA
CGACTCAACCAGATCTTGCTCAATCTCCTTGAAAAAATCCCTGGAAAAAATGCCATTGATGTGACCTACTTGCTG
GAGGAAGGATCAGGCAGGAAACTGCGAAGGCGTACTTTGTTTATCCCAGAAAACAGCTTTCGAAAG**TGA**CCCTCA
AAGAATGAGAACCTCAAGCATCTGGGATCCAGTGGAGCTAATCAGTCCTGCCTCCTGCTCTCTGGGTATAGACAG
GGGTGGGAAGGGTCCATCTGGGCAAGGGGAATGGGGCCATGTTGTTGACATTAGGTACTTAATAAGCCTTGGAGC
TAGTGGAGAGGGAGAGGAAAGGGTTCTGTCCAAGACAGTTCAGGTTAATTAATTTTCTTCTCCATTGCTTCACCT
TAAGGGTTAATAATGTAGAGAGGAGGGAGGACCACATTGATGACCAGAACCTACTGGTACTTTATAGCATTTGCC
CCACCCCACAGCTTAGGTTTTTCTGTCATCCTCAGATCCCACAGGCATTGCGAAGAAGCTGCTTCCTATACCCAG
GTATAACTCAAAATCCAAAGGGATAGGGCCAGGATCCCTATTCCTACCCCATCTATTCTCTGTTGGCTCCAAGAG
CTACCCCAGAGACCTTAAACAGAAACAGTAGCTGAGGCTTCTTCCTAGATACCTGACTAGGGAAGTTTGTCTCTC
CTTTCTTGCCCAACCAGGTCAAAGTAAAATGTGAGTTGACAGCTCAAAGCACTTGTAACTGCTGCCCCCTCCCTA
CCTCTACTCCCCAAAATGGAATCATGGGATAGGGAAGGCCCCCATGGGGTCAGAAGGGCACGGTAGTTCTTGCAA
TTATTTTTGTTTTACCCTTCATAACC

FIGURE 40

CATTTCACCAGGCCCCCAGCTTGGGGCGCCTTCCTTCCCCATGGCGGGACACCTGGCTTCGGATGCCTGCCTTCT
TGCCCCCTCCAGGCGGTGGAGGTGATGGGCCAGGGGGGCCGGAGCCGGGCTGGGTTGATCCTCGGACCTGGCTAA
GCTTCCAAGGCCCTCCTGGAGGGCCAGGAATCGGGCCGGGAGTTGGGTCAGGCTCTGAGGTGTGGGGGATTCCCC
CATGCCCCCCGCTGTATGAGTTCTGTGGGGGGATGGCGTACTGTGGGCCTCAGGTTGGAGTGCGGCTAGTGCCCC
AAGGCGGCTTGGAGACCTCTCAGCCTGAGGGCGAAGCAGGAGTCAGGGTGGAGAGCAACTCCGATGGCACCTCCC
TGGAGCCCTGCACCGTCCCCCCTGGTGCCGTGAAACTGGAGAAGGAGAAGCTGGAGCAAAACCCGCAGGAGTCCC
AGAACATCAAAGCTCTGCAGAAAGAACTCGAACAATTTGCCAAGCTCCTGAAGCAGAAGAGGATCACCCTGGGAT
ATACACAGGCCGATGTGGGGCTCACCCTGGGGGTTCTATTTGGGAAGGTGTTCAGCCAAACGACCATCTGCCGCT
TTGAGGGTCTGCAGCTTAGCTTCAAGAACATGTGTAAGCTGCGGCCCTTGCTGCAGAAGTGGGTGGAGGAAGCTG
ACAACAATGAAAATCTTCAGGAGACATGCAAAGCAGAAACCCTCTTGCAGGCTCGAAAGAGAAAGCGAACCAGTA
TCGAGAACCGAGTGAGAGGCAACCTGGAGAATTTGTTCCTGCAGTGCCCGAAACCCACACTGCAGCAGATCAGCC
ACATCGCCCAGCAGCTTGGGCTCGAGAAGGATGTGGTCCGAGTGTGGTTCTGTAACCGGTGCCAGAAAGGCAAGC
AATCAAGCAGCGACTATGCATAACGAGAGGATTTTGAGGCTGCTGGGTCTCCTTTCTCAGGGGTACCAGTATCCT
TTCCTCTGGCCCCAGGGCCCCATTTTGGTACCCCAGGCTATGGGAGCCCTCACTTCACTGCACTGTACTCCTCGG
TCCCTTTCCCTGAGGGGGAAGCCTTTCCCCCGTCTCCGTCACCACCCTGGGCTCTCCCATGCATTCAAACTGAGG
TGCCTGCCCTTCTAGGAATGGGGGACAGGGGGAGGGGAGGAGCTAGGGAAAGAGAACCTGGAGTTTGTGCCAGGG
CTTTTGGAATTAAGTTCTTCATTCACTAAGGAAGGAATTGGGAACACAAAGGGTGGGGGCAGGGGAGTTTGGGGC
AACTGGTTGGAGGGAAGGTGAAGTTCAATGATGTTCTTGATTTTAATCCCACATCATGTATCACTTTTTTCTTAA

FIGURE 41

CGCCCTACAGGCCCTAGCAGGGCAGGCGGGAGGTGAGCGCGGCCATCCCGCTCCCGGAGTTCCGGGATCCTGGAG
TCCGTAGTTCGTGGTCCTTCGCCGGTGTCCCCGGAGCCCAGCGGCTGTGGATGGCAGAAGCCCAGAGTGGGACTG
GTCAGCTGCAGGAGCAGAAGAAAGGTCTTCTGATAGCCGTCAGCGTCTCCGTTGATAAAATCATCTCGCATTTCG
GGGCCGCCCGGAACTTGGTGCAGAAGGCCCAGTTGGGTGATAGCCGGCTGAGCCCGGATGTGGGGCACCTGGTGC
TGACCACCCTCTGCCCGGCCCTCCACGCCCTGGTGGCGGACGGGCTGAAGCCTTTCCGGAAGGACCTCATCACCG
GGCAGCGCAGGAGCAGCCCCTGGAGCGTGGTGGAGGCGTCGGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGGAA
CCCTGTATAGCCAGGTCAGCCGTCTAGCCCCGCTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCC
TCCTCAACACCAAGCAGTTGGAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGCCTGCTCTCCCTCCTGTACC
TGCCAACAGGATTTTTCTCCCTGGCCCGCGGTGGTTGTCCCTCCCTGTCCACAGAGCTGCTGCTCCTGCTGCAGC
CATTGTCGGTGCTCACTTTCCACCTGGACCTGCTCTTTGAGCACCACCACCACCTGCCCCTGGGCCCACCTCAGG
CCCCTGCCCCTCCAGGCCCACCTCCAGCTCTGCAGCAGACTATGCAAGCCATGCTGCACTTTGGGGGCCGGCTGG
CCCAGAGCCTTCGGGGGACTTCCAAGGAAGCTGCTTCAGACCCCTCTGACTCTCCAAACCTTCCCACACCAGGGA
GCTGGTGGGAGCAGTTGACCCAGGCCTCCCGGGTCTATGCCTCTGGGGGCACTGAGGGCTTTCCTCTTTCCCGAT
GGGCACCGGGGCGTCATGGGACTGCAGCTGAAGAAGGTGCACAGGAGAGACCCCTGCCCACAGATGAGATGGCAC
CAGGCAGGGGCCTCTGGTTGGGAAGACTATTTGGAGTGCCTGGGGGCCCCGCAGAAAATGAGAATGGAGCCCTAA
AGTCCAGGAGACCATCTAGCTGGCTGCCCCCGACAGTGAGTGTGTTGGCTCTTGTGAAGCGGGGGGCACCTCCCG
AGATGCCTTCTCCTCAGGAGCTTGAGGCCTCAGCACCCAGGATGGTGCAAACCCATAGGGCAGTGCGGGCTCTCT
GTGATCACACTGCTGCAAGACCTGACCAGTTGAGCTTCCGGCGTGGGGAAGTGCTGCGTGTCATCACCACAGTGG
ATGAGGACTGGCTCCGCTGTGGGCGGGATGGCATGGAGGGTCTGGTGCCTGTGGGGTATACCTCCCTTGTTCTGT
AGCCCTGGGACCCTTTCCTGCGTATGTGTCTCCTTCCTGTCACCTGGGAATGGAATGGCCAGTGAACACCATCCC
AGAAGCATTTTCCCTCTGCAAAATGACGTTTCTTCCCACGTCTGTTTCTGCTAATATTTAAAATAAACTTTCCTT
CTTCCCTCCTATACCCACCTGTAAGGTGAAATCTGCTCTTCTTCCAAATATATAAAAAAGGAATTGCCCTCCAGG
TAATCCCTTTCCTTTTTCCCGTCTATATAAGGGAATGTCTTCCTTCCTATCTATCTGCAAAATGGAAATCTAGAC
CTCCTTCTTCATCCATAAGTGGACTGTGCCAGTACAATACATGCCTCAGCCCCCAAGCCTAGAAGGACCTCTAGT
CTCCTTCCTGTGTGGAATCTTCCCCACTCCATCCCTCCCAAGTTGCCTGTATTGATAATGTACTCACTCATGCTG
TACTAGGTGCTGAAGCCTGGACACCCTTGGTGGGTGGGCCTGTGGTGATGGTTTGCATCCTTCCTCCTTTGTCCC
AATAAAGTATGGGAGTTG

FIGURE 42

AGGTGAGAGAGGATGTGTGCTGGGCCTTGGAGGAAGGGGGCCGAGACCGGGCCTTACTTCTGTAACGATACTGTG
AGGCATCGGAAGGCCAGCCTGTTGTGTCCGTTTTGAAGGATGCCCCTGTCCCGCTGGTTGAGATCTGTGGGGGTC
TTCCTGCTGCCAGCCCCCTACTGGGCACCCCGGGAGAGGTGGCTGGGTTCCCTACGGCGGCCCTCCCTGGTGCAC
GGGTACCCAGTCCTGGCCTGGCACAGTGCCCGCTGCTGGTGCCAAGCGTGGACAGAGGAACCTCGAGCCCTTTGC
TCCTCCCTCAGAATGAACGGAGACCAGAATTCAGATGTTTATGCCCAAGAAAAGCAGGATTTCGTTCAGCACTTC
TCCCAGATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCACCCAGAGATAGGAGATGCTATTGCCCGGCTCAAG
GAGGTCCTGGAGTACAATGCCATTGGAGGCAAGTATAACCGGGGTTTGACGGTGGTAGTAGCATTCCGGGAGCTG
GTGGAGCCAAGGAAACAGGATGCTGATAGTCTCCAGCGGGCCTGGACTGTGGGCTGGTGTGTGGAACTGCTGCAA
GCTTTCTTCCTGGTGGCAGATGACATCATGGATTCATCCCTTACCCGCCGGGGACAGATCTGCTGGTATCAGAAG
CCGGGCGTGGGTTTGGATGCCATCAATGATGCTAACCTCCTGGAAGCATGTATCTACCGCCTGCTGAAGCTCTAT
TGCCGGGAGCAGCCCTATTACCTGAACCTGATCGAGCTCTTCCTGCAGAGTTCCTATCAGACTGAGATTGGGCAG
ACCCTGGACCTCCTCACAGCCCCCCAGGGCAATGTGGATCTTGTCAGATTCACTGAAAAGAGGTACAAATCTATT
GTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCCTATAGCTGCAGCCATGTACATGGCAGGAATTGATGGC
GAGAAGGAGCACGCCAATGCCAAGAAGATCCTGCTGGAGATGGGGGAGTTCTTTCAGATTCAGGATGATTACCTT
GACCTCTTTGGGGACCCCAGTGTGACCGGCAAAATTGGCACTGACATCCAGGACAACAAATGCAGCTGGCTGGTG
GTTCAGTGTCTGCAACGGGCCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTACGGGCAGAAGGAGGCTGAG
AAAGTGGCCCGGGTGAAGGCGCTATATGAGGAGCTGGATCTGCCAGCAGTGTTCTTGCAATATGAGGAAGACAGT
TACAGCCACATTATGGCTCTCATTGAACAGTACGCAGCACCCCTGCCCCCAGCCGTCTTTCTGGGGCTTGCGCGC
AAAATCTACAAGCGGAGAAAGTGACCTAGAGATTGCAAGGGCGGGGAGAGGAGGCTCTCAATAAATAATCGTGTA
ACCTT

FIGURE 43A

ATCCCCAAATCTGGGCCTGAGCCTAAGAGGAGGCACCTTGGGACGCTGCTCCAGCCTACGGTCAACAAGTTCTCC
CTTCGGGTGTTCGGCAGCCACAAAGCAGTGGAAATCGAGCAGGAGCGGGTGAAGTCAGCGGGGGCCTGGATCATC
CACCCCTACAGCGACTTCCGGTTTTACTGGGACCTGATCATGCTGCTGCTGATGGTGGGGAACCTCATCGTCCTG
CCTGTGGGCATCACCTTCTTCAAGGAGGAGAACTCCCCGCCTTGGATCGTCTTCAACGTATTGTCTGATACTTTC
TTCCTACTGGATCTGGTGCTCAACTTCCGAACGGGCATCGTGGTGGAGGAGGGTGCTGAGATCCTGCTGGCACCG
CGGGCCATCCGCACGCGCTACCTGCGCACCTGGTTCCTGGTTGACCTCATCTCTTCTATCCCTGTGGATTACATC
TTCCTAGTGGTGGAGCTGGAGCCACGGTTGGACGCTGAGGTCTACAAAACGGCACGGGCCCTACGCATCGTTCGC
TTCACCAAGATCCTAAGCCTGCTGAGGCTGCTCCGCCTCTCCCGCCTCATCCGCTACATACACCAGTGGGAGGAG
ATCTTTCACATGACCTATGACCTGGCCAGTGCTGTGGTTCGCATCTTCAACCTCATTGGGATGATGCTGCTGCTA
TGTCACTGGGATGGCTGTCTGCAGTTCCTGGTGCCCATGCTGCAGGACTTCCCTCCCGACTGCTGGGTCTCCATC
AACCACATGGTGAACCACTCGTGGGGCCGCCAGTATTCCCATGCCCTGTTCAAGGCCATGAGCCACATGCTGTGC
ATTGGCTATGGGCAGCAGGCACCTGTAGGCATGCCCGACGTCTGGCTCACCATGCTCAGCATGATCGTAGGTGCC
ACATGCTACGCCATGTTCATCGGCCATGCCACGGCACTCATCCAGTCCCTGGACTCTTCCCGGCGTCAGTACCAG
GAGAAGTACAAGCAGGTGGAGCAGTACATGTCCTTCCACAAGCTGCCAGCAGACACGCGGCAGCGCATCCACGAG
TACTATGAGCACCGCTACCAGGGCAAGATGTTCGATGAGGAAAGCATCCTGGGCGAGCTGAGCGAGCCGCTTCGC
GAGGAGATCATTAACTTCACCTGTCGGGGCCTGGTGGCCCACATGCCGCTGTTTGCCCATGCCGACCCCAGCTTC
GTCACTGCAGTTCTCACCAAGCTGCGCTTTGAGGTCTTCCAGCCGGGGGATCTCGTGGTGCGTGAGGGCTCCGTG
GGGAGGAAGATGTACTTCATCCAGCATGGGCTGCTCAGTGTGCTGGCCCGCGGCGCCCGGGACACACGCCTCACC
GATGGATCCTACTTTGGGGAGATCTGCCTGCTAACTAGGGGCCGGCGCACAGCCAGTGTTCGGGCTGACACCTAC
TGCCGCCTTTACTCACTCAGCGTGGACCATTTCAATGCTGTGCTTGAGGAGTTCCCCATGATGCGCCGGGCCTTT
GAGACTGTGGCCATGGATCGGCTGCTCCGCATCGGCAAGAAGAATTCCATACTGCAGCGGAAGCGCTCCGAGCCA
AGTCCAGGCAGCAGTGGTGGCATCATGGAGCAGCACTTGGTGCAACATGACAGAGACATGGCTCGGGGTGTTCGG
GGTCGGGCCCCGAGCACAGGAGCTCAGCTTAGTGGAAAGCCAGTACTGTGGGAGCCACTGGTACATGCGCCCCTT
CAGGCAGCTGCTGTGACCTCCAATGTGGCCATTGCCCTGACTCATCAGCGGGGCCCTCTGCCCCTCTCCCCTGAC
TCTCCAGCCACCCTCCTTGCTCGCTCTGCTTGGCGCTCAGCAGGCTCTCCAGCTTCCCCGCTGGTGCCCGTCCGA
GCTGGCCCATGGGCATCCACCTCCCGCCTGCCCGCCCCACCTGCCCGAACCCTGCACGCCAGCCTATCCCGGGCA
GGGCGCTCCCAGGTCTCCCTGCTGGGTCCCCCTCCAGGAGGAGGTGGACGGCGGCTAGGACCTCGGGGCCGCCCA
CTCTCAGCCTCCCAACCCTCTCTGCCTCAGCGGGCAACAGGCGATGGCTCTCCTGGGCGTAAGGGATCAGGAAGT
GAGCGGCTGCCTCCCTCAGGGCTCCTGGCCAAACCTCCAAGGACAGCCCAGCCCCCCAGGCCACCAGTGCCTGAG
CCAGCCACACCCCGGGGTCTCCAGCTTTCTGCCAACATGTAAAACCTTTGAGTACATCCAGCCTTAGTTCTTGGG
GTGCAGTAGTATGTACCCAAGGGCAGATGCCTCTTGGGGAAGGCCATGGGGACCTGAAACATTGCCCCATGGAAA
TGTCGACCCTGTGCGGACATTCCGCATACTGCCATGAAGACGGTCTCTGTGTCCTCAGCTCAAGAATCCTGTAGC
TTGTCCCATCATAATCCATTCACCCGTTCATCATGTGTACTGAGCAGCTACCATGTTCAAGGTAATATGCCAGGC
GCTGTATGTCTCCACTGCCAAGTAGAAGTGACTCAAAACCCTCTGACAAGGATATTCCCTTGGCTATGGTCCTGC
CAGGTGCAGGCCCAGGCCCATGACCCCACCTTTACTAAGCACAAGTACTTGCCACTGCCATCACTGCCAAGTAAC
TAGATGTCTCTGTTTCCCTGCCAATGATCCTGCAGGTTCTGCCCGGTCTGGTTATCTTCCTGTTCCTGTAGCATA
GCCAGGCACTGCCAGTCACCTGTGCCCCCATTGCTGTCAGCAGATGTCTTGGGTCCTGAGTGTGGGTATCCACTT
TTACCCGCTCACTGCCACCTGTGGACACTCTGTGTCTACCCTCTGAGTGGGAACATACTTCTAAGTTCCCTGCAG
TCTCTGTCCTGTGGTAGACCATCTTTTTGTAAACTGCGAGCTTCCTCTTCCCTGTACCCTCTGCCCCAGTCGTGA
CCCCCTAAAAGTTAAGGGGTAGTTGGCACCTCCTTATTAATATGCCAGCCTAGATCCCCCCCGGTGGAGGGGCAA
ATGGCTGAATCCTTGTGTGATATTTTTTTCTTCGCTTGTTTATTTATTCATTTATTTAATTGTATTTATTCATTT
ACTAACTTTATGTGTTACCAATTAATTTTGTTTACCCATTCCTTTATCCATCCCTCCCCTCCTTTTCAGGTAAGG
AGACAGGAGGAGTAGGAGGAGGCAGGGCCTCTCCATGCCAGCCTCTGTGGTCCTTGCCCAAACCCATCAGCGCAA
TACTTGAACCTTCTCCCAGGTAGGGGCAGGAGGAGCCACATGAGAGAGGGAGAAGGACCGCGTTTACCTTTAGAG
TTTTGTTTTGTTTTTTCCTTCTGAGTTTGCTGTTGGTGCAGGAATAAGGGAAAGGCCCAAGGTATCCAAGCCTGG
GGAAGGGCAGGCCAGCCAGCACCTCTGCCTTCTCAGGGACAAGAGTAGTCCTTTACCACCCTCACTCTGCCTGTC
CCCTCTCCTACTCTACAGCATTAAAGACTGTGGGACCAGGACCCTAAGTCTCCTTTCCTTCTGGGTGGGGAGTTC
TGGGGTTCTTGGTGTGTGGGAGAAGTTTTATAATTGCTTCCAAACAGCTGGGTTTAAATATAAAATAGACACACT

FIGURE 43B

C

FIGURE 44

TCCCAGGGTCCCGGGTTGGGGGGGTGGAGCAGCATTTCGTCGCCGCGGGGGTGCCGGGACTCCGGCCGCAGTGTC
GCCGCCATCACGGACTTCCTGTGGGACAAGCGCACGGGCCTCGCCGCCAGAACGATGCCGCATCCTCGAAGGTAC
CACTCCTCAGAGCGAGGCAGCCGGGGGAGTTACCGTGAACACTATCGGAGCCGAAAGCATAAGCGACGAAGAAGT
CGCTCCTGGTCAAGTAGTAGTGACCGGACACGACGGCGTCGGCGAGAGGACAGCTACCATGTCCGTTCTCGAAGC
AGTTATGATGATCGTTCGTCCGACCGGAGGGTGTATGACCGGCGATACTGTGGCAGCTACAGACGCAACGATTAT
AGCCGGGATCGGGGAGATGCCTACTATGACACAGACTATCGGCATTCCTATGAATATCAGCGGGAGAACAGCAGT
TACCGCAGCCAGCGCAGCAGCCGGAGGAAGCACAGACGGCGGAGGAGGCGCAGCCGGACATTTAGCCGCTCATCT
TCGCAGCACAGCAGCCGGAGAGCCAAGAGTGTAGAGGACGACGCTGAGGGCCACCTCATCTACCACGTCGGGGAC
TGGCTACAAGAGCGATATGAAATCGTTAGCACCTTAGGAGAGGGGACCTTCGGCCGAGTTGTACAATGTGTTGAC
CATCGCAGGGGTGGGGCTCGAGTTGCCCTGAAGATCATTAAGAATGTGGAGAAGTACAAGGAAGCAGCTCGACTT
GAGATCAACGTGCTAGAGAAAATCAATGAGAAAGACCCTGACAACAAGAACCTCTGTGTCCAGATGTTTGACTGG
TTTGACTACCATGGCCACATGTGTATCTCCTTTGAGCTTCTGGGCCTTAGCACCTTCGATTTCCTCAAAGACAAC
AACTACCTGCCCTACCCCATCCACCAAGTGCGCCACATGGCCTTCCAGCTGTGCCAGGCTGTCAAGTTCCTCCAT
GATAACAAGCTGACACATACAGACCTCAAGCCTGAAAATATTCTGTTTGTGAATTCAGACTATGAGCTCACCTAC
AACCTAGAGAAGAAGCGAGATGAGCGCAGTGTGAAGAGCACAGCTGTGCGGGTGGTAGACTTTGGCAGTGCCACC
TTTGACCATGAGCACCATAGCACCATTGTCTCCACTCGCCATTACCGAGCACCAGAAGTCATCCTTGAGTTGGGC
TGGTCACAGCCTTGTGATGTGTGGAGTATAGGCTGCATCATCTTTGAATACTATGTGGGATTCACCCTCTTCCAG
ACCCATGACAACAGAGAGCATCTAGCCATGATGGAAAGGATCTTGGGTCCTATCCCTTCCCGGATGATCCGAAAG
ACAAGAAAGCAGAAATATTTTTACCGGGGTCGCCTGGATTGGGATGAGAACACATCAGCTGGGCGCTATGTTCGT
GAGAACTGCAAACCGCTGCGGCGGTATCTGACCTCAGAGGCAGAGGAACACCACCAGCTCTTCGATCTGATTGAA
AGCATGCTAGAGTATGAACCAGCTAAGCGGCTGACCTTGGGTGAAGCCCTTCAGCATCCTTTCTTCGCCCGCCTT
CGGGCTGAGCCGCCCAACAAGTTGTGGGACTCCAGTCGGGATATCAGTCGGTGACGATCAGGCCCTGGGCCCCCC
TGCATCTTTTATAGCAGTGGGTGTCCAGTCCAGGACACTGGTGCTTTTTTATACAAGAGAACGAGCCAGAGTTCA
CTCCTTCCTCCTGGCTCTCTATATACCTGTGAATATGTGAAATAGTGTAAATATGAAAGAACTTGTACCTATCAC
TTCAACCCCTGCCTTGTACATAATACTATTCCATCCACACAGTTTCCACCCTCACCTGCCCCCTCATACGGAGTT
GGATGGGGGCCGAGTGAGGTAACCAGGTGGCATCTACCCCATGTTTTATAAGGAATTTTGTACAGTCTTTGTGAA
ATAAAATAACGTGCTTCATTTGA

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FIGURE 45

GGTAGTTGGTTGTGGGCACTGGGTTAGAGGTATCACGTGGGGGCACTTTCGTCTTAGCTTTTGGACAAGACGCAG
GCGCAACCCACGGCTGCTGCGGGGATCCTTGTGGCCCTTCCGGTCGGTGGAACCAATCCGTGCACAGAGAAGCGG
GGCGAACTGAGGCGAGTGAAGTGGACTCTGAGGGCTACCGCTACCGCCACTGCTGCGGCAGGGGCGTGGAGGGCA
GAGGGCCGCGGAGGCCGCAGTTGCAAAC**ATG**GCTCAGAGCAGAGACGGCGGAAACCCGTTCGCCGAGCCCAGCGA
GCTTGACAACCCCTTTCAGGACCCAGCTGTGATCCAGCACCGACCCAGCCGGCAGTATGCCACGCTTGACGTCTA
CAACCCTTTTGAGACCCGGGAGCCACCACCAGCCTATGAGCCTCCAGCCCCTGCCCCATTGCCTCCACCCTCAGC
TCCCTCCTTGCAGCCCTCGAGAAAGCTCAGCCCCACAGAACCTAAGAACTATGGCTCATACAGCACTCAGGCCTC
AGCTGCAGCAGCCACAGCTGAGCTGCTGAAGAAACAGGAGGAGCTCAACCGGAAGGCAGAGGAGTTGGACCGAAG
GGAGCGAGAGCTGCAGCATGCTGCCCTGGGGGGCACAGCTACTCGACAGAACAATTGGCCCCCTCTACCTTCTTT
TTGTCCAGTTCAGCCCTGCTTTTTCCAGGACATCTCCATGGAGATCCCCCAAGAATTTCAGAAGACTGTATCCAC
CATGTACTACCTCTGGATGTGCAGCACGCTGGCTCTTCTCCTGAACTTCCTCGCCTGCCTGGCCAGCTTCTGTGT
GGAAACCAACAATGGCGCAGGCTTTGGGCTTTCTATCCTCTGGGTCCTCCTTTTCACTCCCTGCTCCTTTGTCTG
CTGGTACCGCCCCATGTATAAGGCTTTCCGGAGTGACAGTTCATTCAATTTCTTCGTTTTCTTCTTCATTTTCTT
CGTCCAGGATGTGCTCTTTGTCCTCCAGGCCATTGGTATCCCAGGTTGGGGATTCAGTGGCTGGATCTCTGCTCT
GGTGGTGCCGAAGGGCAACACAGCAGTATCCGTGCTCATGCTGCTGGTCGCCCTGCTCTTCACTGGCATTGCTGT
GCTAGGAATTGTCATGCTGAAACGGATCCACTCCTTATACCGCCGCACAGGTGCCAGCTTTCAGAAGGCCCAGCA
AGAATTTGCTGCTGGTGTCTTCTCCAACCCTGCGGTGCGAACCGCAGCTGCCAATGCAGCCGCTGGGGCTGCTGA
AAATGCCTTCCGGGCCCCG**TGA**CCCCTGACTGGGATGCCCTGGCCCTGCTACTTGAGGGAGCTGACTTAGCTCCC
GTCCCTAAGGTCTCTGGGACTTGGAGAGACATCACTAACTGATGGCTCCTCCGTAGTGCTCCCAATCCTATGGCC
ATGACTGCTGAACCTGACAGGCGTGTGGGGAGTTCACTGTGACCTAGTCCCCCCATCAGGCCACACTGCTGCCAC
CTCTCACACGCCCCAACCCAGCTTCCCTCTGCTGTGCCACGGCTGTTGCTTCGGTTATTTAAATAAAAAGAAAGT
GGAACTGGAACTGAC

FIGURE 46

CCTGCGGCAGCCGGAGCTCGGGGAGCGGAGCGTGGTGGGGAGGGGAGCGGGACAGGCGACACAGGAGACAGCGGC
GCCGCGGCCTCTCCCCACCAGGCGGCCCCGGATCCTACTGGACGCCCTGAGGGCACACCGACCGCGCCTCTAGAG
TCACCCCACGCCGACCCCTCCCCTCTTCTCTAGACTTATTTCCATCCTTCCCGCTTTTACCCTCCCCACCCCTCC
CTGGGCTCCAGGCCGCCGCCCCCTCCTCACTCCTGGACCGGCCCTTCTCGGTGCCCCTCTTCCCTAGGGAGATGC
GATGAGCCGGTGCCCCCGCGTCCTCATCGTCGCCCCGGGCACGGTGCCCGTCCAGTGCCCGTGGTGGGGAGGGAG
CACTCCGCGGTCCCTCCGTGACGCCCCTCGCTTGGCCCCCCCCACAGCTGGCGTCCCTCGGCCATGCCCCAGGGG
ACCCAGCCAGGGGGTGGGCTCTAGAGCGAGTGGGGTGGAGAGGAGAAAGGACGGGGCCTTGGGCGCCTCTGAGAT
GCTCCCAAGTGCCAGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCAGCAGGC**ATG**ATGCCCTCGCCTAGTGACT
CCAGCCGCTCGCTGACCAGCCGGCCCAGCACCAGGGGCCTTACCCACCTCCGCCTCCACCGACCCTGGCTGCAGG
CCCTGCTTACGCTGGGGCTGGTCCAAGTGCTCCTGGGCATCCTGGTGGTCACCTTCAGCATGGTGGCCTCTTCCG
TCACCACCACCGAGAGCATCAAGAGGTCCTGCCCGTCTTGGGCTGGGTTCTCGCTGGCGTTCTCCGGGGTGGTTG
GCATTGTGTCCTGGAAGCGGCCATTCACTCTAGTGATCTCCTTCTTCTCCTTGCTTTCGGTGCTCTGTGTCATGC
TTAGCATGGCTGGCTCTGTTCTCTCCTGTAAGAATGCTCAACTGGCCCGAGACTTCCAACAGTGCTCTCTGGAAG
GAAAGGTCTGTGTGTGCTGTCCCTCTGTTCCCCTCCTCCGGCCCTGTCCAGAGTCGGGGCAGGAACTGAAAGTTG
CCCCTAACTCCACCTGTGATGAAGCCCGAGGGGCCCTCAAGAACCTGCTCTTCAGCGTCTGTGGGCTCACCATTT
GTGCCGCTATAATCTGTACACTCTCTGCTATTGTCTGCTGCATCCAAATCTTCTCCCTGGACCTCGTGCATACGC
AGCTGGCCCCTGAGCGGTCAGTCTCAGGCCCACTGGGACCTCTGGGCTGCACGTCCCCGCCCCCAGCCCCTCTCC
TACACACCATGCTGGACCTGGAGGAATTTGTCCCGCCTGTGCCCCCACCGCCCTACTATCCCCCAGAGTATACCT
GCAGCTCAGAAACAGATGCACAGAGCATCACGTACAATGGCTCCATGGACAGCCCAGTGCCCTTGTACCCTACCG
ATTGCCCCCCTTCTTATGAGGCAGTCATGGGACTACGAGGAGACAGCCAGGCCACTCTCTTTGACCCTCAGCTTC
ACGATGGCTCGTGCATCTGTGAACGAGTGGCCTCCATTGTAGACGTGTCCATGGACAGCGGGTCTCTGGTGCTGT
CAGCCATTGGTGACCTCCCTGGGGGCTCTAGCCCGTCGGAGGACTCGTGCCTGCTGGAGCTGCAGGGCTCCGTGC
GCTCCGTGGACTACGTTCTCTTTCGCTCCATCCAGCGCAGCCGTGCCGGCTACTGCCTCAGCCTGGACTGTGGCC
TGCGGGGCCCCTTCGAGGAAAGCCCCCTGCCACGGCGCCCCCCACGGGCTGCCCGCTCCTATTCCTGCTCTGCCC
CTGAAGCTCCACCCCCACTGGGTGCCCCCACAGCTGCCCGCAGCTGCCACCGGTTGGAGGGCTGGCCGCCCTGGG
TGGGACCCTGCTTCCCCGAGCTGAGGCGGCGGGTCCCCCGGGGAGGGGGCCGCCCAGCCGCAGCCCCGCCCACCC
GAGCCCCGACTCGTCGCTTCAGCGATAGCTCAGGTTCCCTCACCCCACCGGGGCACCGGCCTCCTCATCCGGCAT
CCCCACCACCGCTGCTGCTGCCACGGTCCCACAGCGACCCAGGCATCACGACCTCCAGTGACACTGCTGACTTCA
GGGACCTTTATACCAAAGTGCTTGAGGAAGAAGCTGCTTCTGTTTCCTCTGCAGATACAGGGCTCTGCTCTGAAG
CCTGCCTCTTCCGCCTAGCCCGCTGCCCTTCCCCCAAGTTGCTACGTGCCCGGTCAGCCGAGAAACGGCGCCCTG
TGCCCACCTTCCAAAAAGTTCCCCTGCCCTCGGGCCCTGCACCTGCCCACTCCCTGGGGGACCTAAAGGGCAGCT
GGCCAGGTCGGGGCCTGGTCACTCGTTTCCTCCAGATATCCAGGAAAGCCCCAGACCCCAGTGGGACTGGAGCTC
ATGGACATAAGCAGGTGCCCCGGAGCCTGTGGGGCCGGCCTGGCCGAGAGAGCCTCCACCTTCGCAGCTGCGGAG
ATCTGAGCTCTAGCTCTTCCCTGCGGCGTCTCCTGTCTGGCCGCAGGCTGGAGCGTGGTACCCGCCCCCACAGCC
TCAGCCTCAACGGGGGCAGCCGGGAGACTGGGCTC**TGA**CCTAGGCTTCTTGTCACACTGAACACATCCAGCCACA
GGCACCAGCTGGTTGGGACCAGCAGCCCCCAGCATCCTCTTGCACTGGCTGGCACAAAAAGAAACCTGCTGTATA
CCCCCCAAAGTGTCCCTTTCCCTCCTACCTCTGGGGTCTCTTGCTGCTTGCCTCTGCTGCTCTGGACTGGGAGAG
CTTCTGTCCTGTGCTGCATGGGTATTTAGACTGTGGGGGAGATGCCCCTTCTTATAGCACTGGAGGAGGAAAACA
AATTCTTGTCCCCCTCAGAATGAGAGTGGCTCTTTCTGATTTGCAAGGGCACTATGGTCAGGGCAAAGGCATGGC
CCAGGTGTTTAAGTACAGGGTGACGTGTGCCTATGCAATGGGGTGGTAAGGCAGGCACGAAGAGTCCAAAAAATC
TAGGTGGCCTCTCAGCTCTGCCACCTCTAGCTGCATGACCTTGGGCAAGCTATGTAACCCCAATTGCCTGCTCCA
TTAAAGACTGTGAAGGTAGAATGTTTGTAAAGCTCTTAACAGTATGTAAGCCTTCAATAAATTTCAGTTTTCCCC
TT

FIGURE 47

AATCCAGGTCCCGCCCCGACTCCCCAGGGCTGCTTTTCTCGCGGCTGCGGGTGGTCGGGCTGCATCCTGCCTTCA
GAGTCTTACTGCGCGGGGCCCCAGTCTCCAGTCCCGCCCAGGCGCCTTTGCAGGCTGCGGTGGGATTTCGTTTTG
CCTCCGGTTGGGGCTGCTGTTTCTCTTCGCCGACGAGACGGGGTTTCACCATGTTGGTCAGGCTGGTCTCCAATT
CCTGACCTCGTGATCCGCCCGCCTCGGCCTGCCAAACAGCTGTGATTATAGGCGTGAGCCACCGCGCCCGGCCAA
CCATCATTATTATTTTTAACGAGACTCTGGAACCCCTGTGGTCTTCTCTTCATCTAATGACCCTGAGGGGATGGA
GTTTTCAAGTCCTTCCAGAGAGGAATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCAGCCTCACAGG
ATTGCTTCTACTTCAGGCAGTGTCGTGGGCATCAGGTGCCCGCCCCTGCATCCCTAAAAGCTTCGGCTACAGCTC
GGTGGTGTGTGTCTGCAATGCCACATACTGTGACTCCTTTGACCCCCCGACCTTTCCTGCCCTTGGTACCTTCAG
CCGCTATGAGAGTACACGCAGTGGGCGACGGATGGAGCTGAGTATGGGGCCCATCCAGGCTAATCACACGGGCAC
AGGCCTGCTACTGACCCTGCAGCCAGAACAGAAGTTCCAGAAAGTGAAGGGATTTGGAGGGGCCATGACAGATGC
TGCTGCTCTCAACATCCTTGCCCTGTCACCCCCTGCCCAAAATTTGCTACTTAAATCGTACTTCTCTGAAGAAGG
AATCGGATATAACATCATCTGGGTACCCATGGCCAGCTGTGACTTCTCCATCCGCACCTACACCTATGCAGACAC
CCCTGATGATTTCCAGTTGCACAACTTCAGCCTCCCAGAGGAAGATACCAAGCTCAAGATACCCCTGATTCACCG
AGCCCTGCAGTTGGCCCAGCGTCCCGTTTCACTCCTTGCCAGCCCCTGGACATCACCCACTTGGCTCAAGACCAA
TGGAGCGGTGAATGGGAAGGGGTCACTCAAGGGACAGCCCGGAGACATCTACCACCAGACCTGGGCCAGATACTT
TGTGAAGTTCCTGGATGCCTATGCTGAGCACAAGTTACAGTTCTGGGCAGTGACAGCTGAAAATGAGCCTTCTGC
TGGGCTGTTGAGTGGATACCCCTTCCAGTGCCTGGGCTTCACCCCTGAACATCAGCGAGACTTCATTGCCCGTGA
CCTAGGTCCTACCCTCGCCAACAGTACTCACCACAATGTCCGCCTACTCATGCTGGATGACCAACGCTTGCTGCT
GCCCCACTGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAAATATGTTCATGGCATTGCTGTACATTGGTA
CCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAGGGGAGACACACCGCCTGTTCCCCAACACCATGCTCTTTGC
CTCAGAGGCCTGTGTGGGCTCCAAGTTCTGGGAGCAGAGTGTGCGGCTAGGCTCCTGGGATCGAGGGATGCAGTA
CAGCCACAGCATCATCACGAACCTCCTGTACCATGTGGTCGGCTGGACCGACTGGAACCTTGCCCTGAACCCCGA
AGGAGGACCCAATTGGGTGCGTAACTTTGTCGACAGTCCCATCATTGTAGACATCACCAAGGACACGTTTTACAA
ACAGCCCATGTTCTACCACCTTGGCCACTTCAGCAAGTTCATTCCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGC
CAGTCAGAAGAACGACCTGGACGCAGTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTCGTGCTAAACCG
CTCCTCTAAGGATGTGCCTCTTACCATCAAGGATCCTGCTGTGGGCTTCCTGGAGACAATCTCACCTGGCTACTC
CATTCACACCTACCTGTGGCGTCGCCAGTGATGGAGCAGATACTCAAGGAGGCACTGGGCTCAGCCTGGGCATTA
AAGGGACAGAGTCAGCTCACACGCTGTCTGTGACTAAAGAGGGCACAGCAGGGCCAGTGTGAGCTTACAGCGACG
TAAGCCCAGGGGCAATGGTTTGGGTGACTCACTTTCCCCTCTAGGTGGTGCCAGGGGCTGGAGGCCCCTAGAAAA
AGATCAGTAAGCCCCAGTGTCCCCCCAGCCCCCATGCTTATGTGAACATGCGCTGTGTGCTGCTTGCTTTGGAAA
CTGGGCCTGGGTCCAGGCCTAGGGTGAGCTCACTGTCCGTACAAACACAAGATCAGGGCTGAGGGTAAGGAAAAG
AAGAGACTAGGAAAGCTGGGCCCAAAACTGGAGACTGTTTGTCTTTCCTGGAGATGCAGAACTGGGCCCGTGGAG
CAGCAGTGTCAGCATCAGGGCGGAAGCCTTAAAGCAGCAGCGGGTGTGCCCAGGCACCCAGATGATTCCTATGGC
ACCAGCCAGGAAAAATAGCAGCTCATATGGGAGAAATGTTTGAGCC

FIGURE 48

CAGTGCCCCACAGCTCTTCAGGCCCTTCCTGTGCCTGGCTGCCCTCCCACCCTACCCTTTTGTACCTCTGAGAAG
GCTCTGGCCCCACGCACAGCCCCACTGTCACCAGGGCCAGTATCTGTCTCAGGGACCTCCTATCCAGAGCCTGAG
CCAGCCCCAGCCCCAGCCCCAGCTCCAGCTGCTCCATCTGAACCTGTATCTTCTTCCAAGCCACCCATTACCCTC
TTGGAGTCAGACTCACGCATCTCCAAAGAAGAACTTTTGAGAGCCCAGGCGCTGAGAGAGCAGGGTCAGACACTC
CCGAGCCTCTCGGTACAGCTGTAGGGGCGACACAGGTAGGCTTGCAGCTGCGGGAACAGTGCCACCTCCGCACCT
AAGCACTCCCATTCCTGGCCAGCATCCTTGGGGCTCATCTCATACAATAGCCCCCGGTCTCAGAGCTACCTCCTT
CTCCAGCTCTTCCTCGTCCTCAGGCCTGTGCTCCCCAGTCAGCAGCTGTAGCCGTTCCATGTACTGCCGCTGCAT
GCGGCCAGGCAGGAAGAAGTTGAGGGGAAAGGGCATAGCCTCTGCATACCACTTCCGGGTCACTTCTACGTAGTT
CTTGGTGTCTATCCAAAAAGTATGTACCTGGATTGGGTGGGCAGGAAGAAACAGGCAGGTCTGAGCCAGTGCACC
TGTCTGATTCAAGGTGGGCTTCTGACCTCCATGCTCTCCTGAGTCTCTGTGTGGGTCTGTGTGTTCCCGTCCCCT
CCCCGGCTGGCCATGGATGCTGGGAGGTCTGGGCACACTCACCAGCACCGGGATCAACTTCTCCTCCAGGAGAGA
CATGAAGGCCAGGGTGTCTGCCCCTTGCTGAGCTGACAGATCATAATCAGCATTGTACTTCTGTGGAGGAAATAT
CC**ATG**GCGTGGACGCTGGGGAGCTGCAAGGGCACTTCACCAGGGAGGAAGGAGTCCTGTCTGGTACCCCCCTCAC
TGGCCTCTGAGTGCAGTGGAGGTACAGCAAGGAACTTTTCCTGCCAAGGCCCCCTTGCCTGGGCCCAGCCAGTAG
CCTGTTGCTGTTGGCAAAAAGCCTGGGCCTTGGAGCCCGCTGGCCGTCAAGGTCCTGGGCCCATTGAGAAGAAGG
AAGAAAGGTTGGGCCGCAAACTAGGAGCAGCTCCCAGAATTTCCATGGAAAGCTGGAACAATGCCTGC**TGA**CAGC
AACTTTCTAACAGTAACTTTCCCGACCCAGACACCACAAAGCTAGCACAACGGAGCTCAGATGCAGGCTAGGACT
CGGTCCATGCCTCAGGAACCAGGGAAAGCCATCCTCACACTCCCTGGATCCAGGGAACCCACGCCCAGGGCCCCC
CAGCTTGTTCCCTCAGTGCCCAGCTCTTGGCTATTTCTTTCACTTCATTCCATCGCCCAGACACCATTACCACAT
ACACATTCCATCCATACCCCCAGGTCTCAGCCTGCCCTACCTTCCCAGGCTCCAGTCCCTGTTCCTCAGCATCCC
CCACCACATCCTGAGTAAGCTTTGTCCCCAGATAACCTCTTCAGCATGATCCTTAAATCTCCCTAAGCCTCAGTT
TCTCCCCTGTGGAATGGGGGTAAGAATCTCTTTCTCTGAATGCCCCTGTGTTAGGAAATAATTTAGAATACTTCG
GAAACAAAAAGCTCTGTTCACACCTAAGCAATCAGGGCAGTGGCCCTGGCCTTGCCAGGAACTTAGGCTTTTATC
TGGATCCTCTTTCCAGGCCTCTCAATTAATTCCCCAGGTCCTTAACCTTTGGGAAATTAGAAATTAGGAAGAGTG
TCCCACTTCTGACACTGTGTTCCCTCTTGGAACCTGACCGTCAATGCTAGAAGAACCCTTGGAAAACATGCTGGC
CCAGCCCTCTAGTTTTACAAATAAGGGAGTGCACAGCCCTGAGAGGTTACATGGCCTGCCCAAGATCACGCAGTC
AATGGCAGAGTAAAGAGCATAGCCTAGGCCTCCCCACTCCTCTAGTAATGCTCTTTCATCTTCTCCAACCTGGCT
CTAAGCCTTGTCCATCCTGAGCCCCATATCTAGCCCAACCTAGTCCCTGAAAACAAGAAGTGGCCCTTAGAAATC
TCTCTCCAGTCCCACTATCAGAGGCCAACTGCTGTCTTCCAGTCTCCTTCAGCCTGTGCTCCTCTCCCTCCCTGA
CTGACAGGCAGAAGGTACCGTGCCTCTGGATATCCCCACAGTGCCCTGAGCTGCATCTCTTGCCGACTGCTTTAA
TACATCACAGTGACATTGTGTGTGTCTCTGCCACCAGACTATTGCTCCTTGATGCTCTGGGTCACCTGCATCTAG
CATGGCATATATCTAGTGCTCAATAAATGTGTATTGTACGG

FIGURE 49

AAGCCCCAGCCCGGCCTCCGCTCCGGCCGCCGCCACCGCCCCTGTTTTGTTTCCATGGCGACAGGCGGCGCAGGG
CCCGCTCCAAACATAACGCGCTGTGGAAAACATGCTGCTCGGGGGACCCCCCCGCAGTCCCCGCTCGGGGACGAG
CCCCAAGGGGCCCTGGAGCAGTACAGGCCACGTGCAGTTTGGCAAGAGCCCCCAGACCTGGCCCAGGCGCACAAG
ACCCCGCTCTCCAGAGCCTGCCGCGCCTTCAAGGGTTCGGGGCTCCACTTGGACGAGGCGCCGTGACTCTCCGAG
GCGCGCCGGGCCGACAGCGCTGTCCCGCTACGTGGGCCACCTCTGGATGGGCCGGCGGCCGCCCTCCCCCGAGGC
CCGCGGCCCAGTCCCCCGCAGTTCAGCTGCCAGTCGGGCCAGAAGAAGCCTCGCCTCCCCGGGGATCTCCCCAGG
CCCCCTGACCGCAACGATCGGAGGGGCGGTGGCGGGGGGCGGGCCCAGGCAGGGGAGGGCAGAAGCACACAAGGA
AGTGTTTCCGGGACAGAGGGTGGGCAAGATGGCGGCGCCCATGGAGCTGTTCTGCTGGTCAGGGGGCTGGGGGCT
GCCGTCAGTGGACCTGGACAGCCTGGCCGTGCTGACCTATGCCAGATTTACTGGTGCTCCACTGAAGGTACACAA
GATCAGCAACCCCTGGCAGAGCCCTTCAGGAACTCTGCCTGCCCTTCGGACCAGTCATGGAGAGGTCATCTCAGT
TCCACACAAGATCATCACCCACCTTCGAAAAGAGGTACATACTTTTTGGATAGACACCAAGAACTACGTGGAAGT
GACCCGGAAGTGGTATGCAGAGGCTATGCCCTTTCCCCTCAACTTCTTCCTGCCTGGCCGCATGCAGCGGCAGTA
CATGGAACGGCTACAGCTGCTGACTGGGGAGCACAGGCCTGAGGACGAGGAAGAGCTGGAGAAGGAGCTGTACCG
AGAGGCTCGGGAGTGTCTGACCCTGCTCTCTCAGCGCCTGGGCTCTCAAAAGTTCTTCTTTGGAGATGCCCCTGC
CTCCTTGGACGCCTTCGTCTTCAGCTACTTGGCCCTGCTGCTGCAGGCAAAGCTGCCCAGTGGGAAGCTGCAGGT
CCACCTGCGTGGGCTGCACAACCTCTGTGCCTATTGTACCCACATTCTCAGTCTCTACTTCCCCTGGGATGGAGC
TGAGGTACCACCGCAACGCCAGACACCAGCAGGCCCAGAGACTGAGTGAGTGAGCCATACCGGCGCCGGAACCAG
ATCCTATCTGTGCTGGCAGTGACTGGCAGCCATGGTGGGCTACGCCTTGCTCAGCGGCATTGTCTCCATCCAGCG
GGCAACGCCTGCTCGTGGCCCCAGGCACCCGGACCCTGGGCATGGCTGAGGAGGATGAAGAGGAATGATTTGTCC
TCACGCTCCCAAGACTGGTTTTTCTACTCTCATGCATTCCAGAGGCCCCCGTGCCTCCTCGTTGTTGGTACAGCC
GGACACGGGGTGTGCCACCCAGAATAAAGCCACTCACACTG

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FIGURE 50

ATGGAGACGCAGGAACTTCGGGGGGCCCTGGCTCTTCTCCTCCTTTGCTTTTTCACATCTGCCAGTCAGGATCTG
CAGGTAATTGACCTGCTGACTGTGGGCGAGTCTCGGCAGATGGTAGCTGTGGCAGAGAAGATCCGGACAGCCTTG
CTCACTGCTGGGGACATCTACCTCTTATCCACCTTCCGCCTGCCCCCCAAGCAGGGTGGTGTCCTCTTTGGCCTC
TATTCTCGCCAAGACAACACTCGATGGCTGGAGGCCTCTGTTGTAGGCAAGATCAACAAAGTACTGGTGCGATAC
CAGCGGGAGGATGGCAAAGTCCACGCCGTGAACCTACAGCAAGCGGGCCTGGCTGATGGGCGCACACACACAGTT
CTCCTGCGACTCCGAGGTCCCTCCAGACCCAGCCCTGCCCTACATCTCTACGTGGACTGCAAACTGGGTGACCAA
CATGCAGGCCTTCCAGCACTGGCCCCCATTCCTCCAGCGGAGGTCGATGGGCTGGAGATTAGGACTGGACAGAAG
GCGTATTTGAGGATGCAGGGCTTTGTGGAATCTATGAAAATTATTCTGGGTGGGTCCATGGCCCGGGTAGGAGCC
CTGAGTGAGTGTCCATTCCAAGGGGACGAGTCCATCCACAGTGCAGTGACCAATGCACTGCACTCCATTCTAGGG
GAGCAGACCAAGGCGCTGGTCACCCAACTCACCCTCTTCAACCAGATCCTGGTGGAGCTGCGGGATGATATACGA
GACCAGGTGAAGGAAATGTCCCTGATCCGAAACACCATTATGGAGTGTCAGGTGTGCGGCTTCCATGAGCAGCGT
TCCCACTGCAGCCCCAATCCCTGCTTCCGAGGTGTGGACTGCATGGAAGTGTACGAGTACCCAGGCTACCGCTGT
GGGCCCTGCCCCCCTGGCCTGCAGGGCAACGGCACCCACTGCAGTGACATCAATGAGTGTGCTCACGCTGACCCC
TGTTTCCCGGGCTCCAGCTGCATCAACACCATGCCCGGCTTCCACTGTGAGGCCTGTCCTCGAGGGTACAAGGGC
ACACAGGTGTCTGGTGTGGGCATTGACTATGCCCGGGCCAGCAAACAGGTCTGCAATGACATCGATGAATGCAAC
GATGGCAACAATGGTGGCTGTGACCCAAACTCCATCTGCACCAACACTGTGGGCTCTTTCAAGTGTGGTCCCTGC
CGCCTGGGTTTCCTGGGCAACCAGAGCCAGGGCTGCCTCCCAGCCCGGACCTGCCACAGCCCAGCCCACAGCCCC
TGCCACATCCATGCTCACTGTCTCTTTGAACGCAATGGTGCAGTGTCCTGCCAGTGTAACGTGGGCTGGGCTGGG
AATGGGAACGTGTGTGGGACTGACACAGACATCGATGGCTACCCAGACCAAGCACTGCCCTGCATGGACAACAAC
AAACACTGCAAACAGGACAACTGCCTTTTGACACCCAACTCTGGGCAGGAAGATGCTGATAATGATGGTGTGGGG
GACCAGTGTGATGATGATGCTGATGGGGATGGGATCAAGAATGTTGAGGACAACTGCCGGCTGTTCCCCAACAAA
GACCAGCAGAACTCAGATACAGATTCATTTGGTGATGCCTGTGACAATTGCCCCAACGTTCCCAACAATGACCAG
AAGGACACAGATGGCAATGGGGAAGGAGATGCCTGTGACAACGACGTGGATGGGGATGGCATCCCCAATGGATTG
GACAATTGCCCTAAAGTCCCCAACCCACTACAGACAGACAGGGATGAGGACGGGGTGGGAGATGCTTGCGACAGC
TGCCCTGAAATGAGCAATCCTACCCAGACAGATGCAGACAGCGACCTGGTGGGGGATGTCTGTGATACTAATGAA
GACAGCGATGGGGATGGGCATCAGGACACCAAGGACAACTGCCCACAGCTGCCAAATAGCTCCCAGCTGGACTCT
GATAACGATGGACTTGGAGATGAGTGTGATGGGGATGATGACAATGATGGCATCCCAGATTATGTGCCTCCTGGT
CCCGATAACTGCCGCCTGGTACCCAATCCCAATCAGAAGGACTCAGATGGCAATGGCGTTGGTGATGTGTGTGAG
GATGACTTTGACAATGATGCTGTGGTCGACCCCCTGGATGTGTGTCCTGAAAGTGCAGAGGTAACGCTTACGGAT
TTTCGGGCCTATCAGACCGTCGTCCTGGATCCTGAGGGTGATGCTCAGATTGACCCAAACTGGGTTGTGCTCAAC
CAGGGCATGGAAATCGTTCAGACCATGAACAGTGACCCTGGCTTGGCAGTTGGATACACGGCCTTCAATGGTGTG
GACTTTGAAGGCACCTTCCATGTGAACACAGTGACTGATGATGACTACGCAGGCTTTCTCTTCAGTTATCAAGAC
AGTGGCCGCTTCTACGTAGTCATGTGGAAGCAGACCGAGCAGACCTACTGGCAGGCTACACCCTTCCGGGCGGTT
GCCCAGCCCGGGCTGCAGCTCAAGGCAGTGACATCAGTGTCTGGCCCAGGTGAGCACCTCCGAAATGCCCTGTGG
CATACTGGCCACACCCCTGATCAGGTACGACTGCTGTGGACAGACCCACGAAATGTGGGCTGGCGGGACAAGACC
TCCTATCGCTGGCAGCTTCTGCACCGGCCTCAAGTTGGCTACATTCGGGTGAAGCTCTATGAGGGACCCCAGCTT
GTGGCGGATTCTGGGGTGATCATTGACACATCCATGCGAGGGGGGCGTCTTGGTGTATTCTGCTTCTCCCAAGAA
AACATAATTTGGTCCAATCTCCAGTATCGATGCAATGACACAGTGCCTGAGGACTTTGAGCCATTCCGGAGGCAG
CTGCTCCAGGGAAGGGTGTGA

FIGURE 51

CGCTCCACCTCTCAAGCAGCCAGCGCCTGCCTGAATCTGTTCTGCCCCCTCCCCACCCATTTCACCACCACC**ATG**

ACACCGGGCACCCAGTCTCCTTTCTTCCTGCTGCTGCTCCTCACAGTGCTTACAGTTGTTACAGGTTCTGGTCAT
GCAAGCTCTACCCCAGGTGGAGAAAAGGAGACTTCGGCTACCCAGAGAAGTTCAGTGCCCAGCTCTACTGAGAAG
AATGCTGTGAGTATGACCAGCAGCGTACTCTCCAGCCACAGCCCCGGTTCAGGCTCCTCCACCACTCAGGGACAG
GATGTCACTCTGGCCCCGGCCACGGAACCAGCTTCAGGTTCAGCTGCCACCTGGGGACAGGATGTCACCTCGGTC
CCAGTCACCAGGCCAGCCCTGGGCTCCACCACCCCCCCAGCCCACGGTGTCACCTCGGCCCCGGACACCAGGCCG
GCCCGGGGCTCCACCGCCCCCCCAGCCCACGGTGTCACCTCGGCCCCGGACACCAGGCCGGCCCCGGGCTCCACC
GCCCCCCCAGCCCATGGTGTCACCTCGGCCCCGGACAACAGGCCCGCCTTGGGCTCCACCGCCCCTCCAGTCCAC
AATGTCACCTCGGCCTCAGGCTCTGCATCAGGCTCAGCTTCTACTCTGGTGCACAACGGCACCTCTGCCAGGGCT
ACCACAACCCCAGCCAGCAAGAGCACTCCATTCTCAATTCCCAGCCACCACTCTGATACTCCTACCACCCTTGCC
AGCCATAGCACCAAGACTGATGCCAGTAGCACTCACCATAGCACGGTACCTCCTCTCACCTCCTCCAATCACAGC
ACTTCTCCCCAGTTGTCTACTGGGGTCTCTTTCTTTTTCCTGTCTTTTCACATTTCAAACCTCCAGTTTAATTCC
TCTCTGGAAGATCCCAGCACCGACTACTACCAAGAGCTGCAGAGAGACATTTCTGAAATGTTTTTGCAGATTTAT
AAACAAGGGGGTTTTCTGGGCCTCTCCAATATTAAGTTCAGGCCAGGATCTGTGGTGGTACAATTGACTCTGGCC
TTCCGAGAAGGTACCATCAATGTCCACGACGTGGAGACACAGTTCAATCAGTATAAAACGGAAGCAGCCTCTCGA
TATAACCTGACGATCTCAGACGTCAGCGTGAGTGATGTGCCATTTCCTTTCTCTGCCCAGTCTGGGGCTGGGGTG
CCAGGCTGGGGCATCGCGCTGCTGGTGCTGGTCTGTGTTCTGGTTGCGCTGGCCATTGTCTATCTCATTGCCTTG
GCTGTCTGTCAGTGCCGCCGAAAGAACTACGGGCAGCTGGACATCTTTCCAGCCCGGGATACCTACCATCCTATG
AGCGAGTACCCCACCTACCACACCCATGGGCGCTATGTGCCCCCTAGCAGTACCGATCGTAGCCCCTATGAGAAG
GTTTCTGCAGGTAATGGTGGCAGCAGCCTCTCTTACACAAACCCAGCAGTGGCAGCCACTTCTGCCAACTTG**TAG**

GGGCACGTCGCCCGCTGAGCTGAGTGGCCAGCCAGTGCCATTCCACTCCACTCAGGTTCTTCAGGGCCAGAGCCC
CTGCACCCTGTTTGGGCTGGTGAGCTGGGAGTTCAGGTGGGCTGCTCACAGCCTCCTTCAGAGGCCCCACCAATT
TCTCGGACACTTCTCAGTGTGTGGAAGCTCATGTGGGCCCCTGAGGGCTCATGCCTGGGAAGTGTTGTGGTGGGG
GCTCCCAGGAGGACTGGCCCAGAGAGCCCTGAGATAGCGGGGATCCTGAACTGGACTGAATAAAACGTGGTCTCC
CACTG

FIGURE 52

TCCTGCACTTCTTCCTCGATAGCCGCTGGGGCGCAAGCCGAGAGCGGCTGGCTATCAGCAAGGACCAGCGAGCAG
TACGGAGTGTTCCAGGGCTGCCCCTGCTGCTGGCTGCTGACCGGCTGCTGACCGGCTGCCACCTGAGTGTGGATG
TGGTCCTGGGCGACGTGGCTGTGACCCAGGGCCGCAGCTACTGGGCCTGCGCCGTAGACCCAGCCTCCTACTTGG
TCAAGGTGGGCGTCGGGCTGGAGAGCAAGCTTCAAGAAAGTTTCCAGGGTGCCCCCGATGTGATCAGCCCCAGGT
ACGACCCGGACAGCGGGCACGACAGCGGTGCCGAGGATGCCACAGTGGAGGCGTCGCCACCCTTCGCTTTCCTAA
CCATTGGC**ATG**GGCAAGATCCTGCTGGGGTCGGGGGCAAGCTCAAACGCAGGGCTGACAGGGAGGGATGGCCCCA
CAGCCGGCTGCACAGTGCCCCTGCCACCCCGCCTGGGCATCTGCCTGGACTATGAGCGGGGCCGGGTTTCCTTCC
TGGATGCTGTTTCCTTCCGTGGGCTCTTGGAGTGCCCCCTGGACTGCTCAGGGCCTGTGTGCCCTGCCTTTTGCT
TCATCGGGGGTGGCGCAGTACAGCTCCAGGAGCCAGTGGGCACTAAGCCTGAGAGGAAAGTCACCATTGGGGGCT
TCGCCAAGCTGGAC**TGA**

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FIGURE 53

CACACCCCCACTGGGCTCCTGCATTAAGCCCGGGGTTCGCAGCCGCAGCCGGGATCGGGCACCCAGGGGCGGGCG
GGCACGGTAGGGCCATGGCAGAGGGTGAGGATATGCAGACCTTCACTTCCATCATGGACGCACTGGTCCGCATCA
GTACCAGCATGAAGAACATGGAGAAGGAACTGCTGTGCCCAGTGTGTCAAGAGATGTACAAGCAGCCACTGGTGC
TGCCCTGTACCCACAACGTGTGCCAGGCCTGTGCCCGAGAGGTCTTGGGCCAGCAGGGCTACATAGGACATGGTG
GGGACCCCAGCTCCGAGCCCACCTCTCCTGCCTCCACCCCTTCCACCCGCAGCCCCCGCCTCTCCCGCAGAACTC
TCCCCAAGCCAGACCGCCTGGACCGGCTGCTTAAGTCAGGCTTTGGGACATACCCTGGGAGGAAGCGAGGTGCTT
TGCACCCCCAAGTGATCATGTTCCCGTGCCCAGCCTGCCAAGGTGATGTGGAGCTTGGGGAGCGGGGTCTGGCAG
GGCTTTTCCGGAACCTGACCCTGGAGCGTGTGGTGGAGCGGTACCGCCAGAGTGTGAGTGTGGGAGGTGCCATCC
TGTGCCAGTTGTGCAAGCCCCCACCACTAGAGGCCACCAAGGGCTGCACAGAGTGCCGCGCCACCTTCTGCAATG
AGTGCTTCAAGCTCTTCCACCCCTGGGGCACCCAGAAGGCCCAGCATGAGCCCACCCTGCCTACCCTCTCCTTCC
GACCCAAGGGCCTTATGTGCCCAGACCACAAGGAAGAGGTGACCCACTACTGCAAGACATGCCAACGCCTGGTAT
GTCAACTCTGCCGGGTGCGGCGCACCCACAGCGGGCACAAGATCACACCAGTGCTCAGTGCCTACCAGGCCCTCA
AGGACAAGCTGACAAAGAGCCTGACATACATCCTGGGAAACCAGGACACGGTACAGACCCAGATCTGTGAGCTGG
AGGAGGCCGTGAGGCACACCGAGGTGAGTGGTCAGCAGGCCAAGGAGGAGGTGTCGCAGCTGGTGCGGGGGCTGG
GGGCTGTGCTGGAGGAGAAGCGGGCATCACTGCTTCAGGCCATTGAAGAATGCCAGCAGGAGCGGCTGGCCCGTC
TCAGCGCCCAGATCCAGGAGCACCGGAGCCTGCTGGATGGCTCAGGTCTGGTGGGCTATGCCCAGGAAGTACTTA
AGGAAACAGACCAGCCTTGCTTTGTGCAAGCCGCCAAGCAGCTGCACAACAGGATTGCCCGAGCCACTGAAGCCC
TCCAGACATTCCGGCCAGCTGCCAGCTCCTCCTTCCGCCATTGCCAGCTCGACGTGGGACGTGAGATGAAGCTGC
TGACAGAGCTTAACTTCCTGCGAGTGCCTGAGGCCCCCGTCATTGACACCCAGCGCACCTTTGCCTATGATCAGA
TCTTCCTGTGCTGGCGGCTGCCCCCCCATTCACCACCTGCCTGGCACTATACCGTTGAGTTCCGGCGCACGGATG
TGCCTGCTCAGCCAGGCCCCACCCGCTGGCAGCGGCGGGAGGAGGTGAGGGGCACCAGTGCCCTGCTTGAGAACC
CCGACACGGGCTCTGTGTATGTGCTGCGTGTCCGCGGCTGCAACAAGGCCGGCTACGGCGAATACAGTGAAGATG
TGCACCTGCACACGCCCCCGGCACCTGGAATACAAAACTTAGCCAGGCGTGGTGGTGCGTGCCTACAATTCCAGC
TACTCGGGAGGCTGAGGTAGGAGAATCGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGATCGCGCCACT
GGACTCCAGCCTGGACAACAGAGCAAGACTCCGACGTCTCGGAAAAATAAATAAATAAA

FIGURE 54

GCATGCGCATAGCTAACCGCACCCGGTTCAGCTCGCCTTTCTTGGCCAGAGGCGCCGGTTGGACTCACGGGCGGG
GCATGATGGTGGTGGGTACGGGCACCTCGCTGGCGCTCTCCTCCCTCCTGTCCCTGCTGCTCTTTGCTGGGATGC
AGATGTACAGCCGTCAGCTGGCCTCCACCGAGTGGCTCACCATCCAGGGCGGCCTGCTTGGTTCGGGTCTCTTCG
TGTTCTCGCTCACTGCCTTCAATAATCTGGAGAATCTTGTCTTTGGCAAAGGATTCCAAGCAAAGATCTTCCCTG
AGATTCTCCTGTGCCTCCTGTTGGCTCTCTTTGCATCTGGCCTCATCCACCGAGTCTGTGTCACCACCTGGTATC
TTCATCTTCTCCATGGTTGGTCTGTACTACATCAACAAGATCTCCTCCACCCTGTACCAGGCAGCAGCTCCAGTC
CTCACACCAGCCAAGGTCACAGGCAAGAGCAAGAAGAGAAACTGACCCTGAATGTTCAATAAAGTTGATTCTTTG
T

FIGURE 55

GCCACCACCATGCCCAAGGGAAAGGCTGAAGGGGATCCTAAAGGAGATAAAGCCAAGGTGAAGGACGAACCACAA
AGGAGATCCGCGAGGTTGTCTGCTAAACCTTCTTCTCCAAAGCCAGAGCCCAAGCCTAAAAAGGCCCCTGCAAAG
AAGGGAGAGAAGGTACTCAAAGAGAAGAAGGGAAAAGCTGATGCTGGAAAGGAGGGGAATAACCCTGCAGAAAAT
GGAGATGCCAAAACAGACCAGGAACAGAAAGCTGAAGGTGCTGGAGATGCCAGAGGAAGTGTGTGCATTTTTGAT
AACTGTGTACTTCTGGTGAGTGTACAGTTTGAAATACTATTTTGTATCAAGTTTTATAAAAATGCAGATTTTTCA
GATTTTTTTTTTTTTTTTAAGCTATGTTGTTAGCACACAGAACACTTCATTGTTGCTTTTAGGAGAAGGAGCAAA
TGTCACTAATAGAATGTCTCTGAAGCTGGATTGATATGGGGAAATCGTCTTTTCCTTCTAGTTCCGAGAGACTTC
CTCTTGGCTCCCAGGAGGAGGGATTCCCTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGAAAGG
GAAAAGCAAATTTGTTTTTATGTCCTCTTCTCCCTTTCCATCTTTCAGCATAGACTTAACTCCCTTAAGCCCAGA
CATCTATTGGAACCTGACCTCCAATCATTGGTTACTAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGTCACTG
AGATGGCACCTGTCAAAAAAGTAGTGGTTCTGTTTCTAGATTGTAGATCTTCAGATAAATTCTGCCATTTTAATT
TCACTTCCTGAAAGTCAGGGTTGACTTGTGAAAAGTTGTTAAACAACATGCTAAATGTGAAATGTCAACTCTCAC
TCTAAACTTTCCCTGTTCAGATCATCAGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTTCTGGTAGT
CCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACTGTTAATGATTGTCTGCCCATGTCCTGCCTGAAATACCAT
GATTGTTTATGCAAAGTATCTTTAATAAAACTGGATACAGTTAGGCTTGG

FIGURE 56

GGCCCTTCCACCTTTTGTGGGCACTCAAGTTCGGACCTCTGGGATCGGCGATTCCCCTCTGGCCAGGGCTGGTTT
TAATGCTCTCCGTGGGCGGGCTTCGGTTGAGTTTGGTCCGCTTTTCCTTTCTGCTCCTCAGGGGAGCATTGCTTC
CTTCTCTCGCAGTGACCATGACGAAATTAGCGCAGTGGCTTTGGGGACTAGCGATCCTGGGCTCCACCTGGGTGG
CCCTGACCACGGGAGCCTTGGGCCTGGAGCTGCCCTTGTCCTGCCAGGAAGTCCTGTGGCCACTGCCCGCCTACT
TGCTGGTGTCCGCCGGCTGCTATGCCCTGGGCACTGTGGGCTATCGTGTGGCCACTTTTCATGACTGCGAGGACG
CCGCACGCGAGCTGCAGAGCCAGATACAGGAGGCCCGAGCCGACTTAGCCCGCAGGGGGCTGCGCTTCTGACAGC
CTAACCCCATTCCTGTGCGGACAGCCCTTCCTCCCATTTCCCATTAAAGAGCCAGTTTATTTTCT

FIGURE 57

GTAGGTCCCGGCAACCGCAGGCTCGCGGCGGGCGCTGGGCGCGGGATCCGACTCCAGTCGTA**ATG**GAGGCGGGCG
GCTTTCTGGACTCGCTCATTTACGGAGTCATGCACATGCGAATGACCCGGAGTGTGGACAACGTCCAGTTCCTGC
CCTTTCTCACCACGGAAGTCAACAACCTGGGCTGGCTGAGTTATGGGGCTTTGAAGGGAGACGGGATCCTCATCG
TCGTCAACACAGTGGGTGCTGCGCTTCAGACCCTGTATATCTTGGCATATCTGCATTACTGCCCTCGGAAGCGTG
TTGTGCTCCTACAGACTGCAACCCTGCTAGGGGTCCTTCTCCTGGGTTATGGCTACTTTTGGCTCCTGGTACCCA
ACCCTGAGGCCCGGCTTCAGCAGTTGGGCCTCTTCTGCAGTGTCTTCACCATCAGCATGTACCTCTCACCACTGG
CTGACTTGGCTAAGGTGATTCAAACTAAATCAACCCAATGTCTCTCCTACCCACTCACCATTGCTACCCTTCTCA
CCTCTGCCTCCTGGTGCCTCTATGGGTTTCGACTCAGAGATCCCTATATCATGGTGTCCAACTTTCCAGGAATCG
TCACCAGCTTTATCCGCTTCTGGCTTTTCTGGAAGTACCCCCAGGAGCAAGACAGGAACTACTGGCTCCTGCAAA
CC**TGA**GGCTGCTCATCTGACCACTGGGCACCTTAGTGCCAACCTGAACCAAAGAGACCTCCTTGTTTCAGCTGGG
CCTGCTGTCCAGCTTCCCAGGTGCAGTGGGTTGTGGGAACAAGAGATGACTTTGAGGATAAAAGGACCAAAGAAA
AAGCTTTACTTAGATGATTGATTGGGGCCTAGGAGATGAAATCACTTTTTATTTTTTAGAGATTTTTTTTTTTAA
TTTTGGAGGTTGGGGTGCAATCTTTAGAATATGCCTTAAAAGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAG
CACTTTGGGAGGCCAAGGTGGGCGGATCGCCTGAGGTCAGGAGTTCAAGACCAACCTGACTAACATGGTGAAACC
CCATCTCTACTAAAAATACAAAATTAGCCAGGCATGATGGCACATGCCTGTAATCCCAGATACTTGGGAGGCTGA
GGCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCTGAGATCGTGCCATTGTGATATGAATATGC
CTTATATGCTGATATGAATATGCCTTAAAATAAAGTGTTCCCCACCCCTG

FIGURE 58

CCCAGGTTCCGGAATGAGGACTACACCATACATGTGCAGCTGAATGACTACGTGGACATCATCTGTCCGCACTAT
GAAGATCACTCTGTGGCAGACGCTGCCATGGAGCAGTACATACTGTACCTGGTGGAGCATGAGGAGTACCAGCTG
TGCCAGCCCCAGTCCAAGGACCAAGTCCGCTGGCAGTGCAACCGGCCCAGTGCCAAGCATGGCCCGGAGAAGCTG
TCTGAGAAGTTCCAGCGCTTCACACCTTTCACCCTGGGCAAGGAGTTCAAAGAAGGACACAGCTACTACTACATC
TCCAAACCCATCCACCAGCATGAAGACCGCTGCTTGAGGTTGAAGGTGACTGTCAGTGGCAAAATCACTCACAGT
CCTCAGGCCCATGACAATCCACAGGAGAAGAGACTTGCAGCAGATGACCCAGAGGTGCGGGTTCTACATAGCATC
GGTCACAGTGCTGCCCCACGCCTCTTCCCACTTGCCTGGACTGTGCTGCTCCTTCCACTTCTGCTGCTGCAAACC
CCGTGAAGGTGTATGCCACACCTGGCCTTAAAGAGGGACAGGCTGAAGAGAGGGACAGGCACTCCAAACCTGTCT
TGGGGCCACTTTCAGAGCCCCCAGCCCTGGGAACCACTCCCACCACAGGCATAAGCTATCACCTAGCAGCCTCAA
AACGGGTCAGTATTAAGGTTTTCAACCGGAAGGAGGCCAACCAGCCCGACAGTGCCATCCCCACCTTCACCTCGG
AGGGATGGAGAAAGAAGTGGAGACAGTCCTTTCCCACCATTCCTGCCTTTAAGCCAAAGAAACAAGCTGTGCAGG
CATGGTCCCTTAAGGCACAGTGGGAGCTGAGCTGGAAGGGGCCACGTGGATGGGCAAAGCTTGTCAAAGATGCCC
CCTCCAGGAGAGAGCCAGGATGCCCAGATGAACTGACTGAAGGAAAAGCAAGAAACAGTTTCTTGCTTGGAAGCC
AGGTACAGGAGAGGCAGCATGCTTGGGCTGACCCAGCATCTCCCAGCAAGACCTCATCTGTGGAGCTGCCACAGA
GAAGTTTGTAGCCAGGTACTGCATTCTCTCCCATCCTGGGGCAGCACTCCCCAGAGCTGTGCCAGCAGGGGGGCT
GTGCCAACCTGTTCTTAGAGTGTAGCTGTAAGGGCAGTGCCCATGTGTACATTCTGCCTAGAGTGTAGCCTAAAG
GGCAGGGCCCACGTGTATAGTATCTGTATATAAGTTGCTGTGTGTCTGTCCTGATTTCTACAACTGGAGTTTTTT
TATACAATGTTCTTTGTCTCAAAATAAAGCAATGTGTTTTTTCGG

FIGURE 59

GGAGCTGGGAAGCGGAGAAGCCGGGAGCGCGGGGCTCAGTCGGGGGGCGGCGGCGGCGGCGGCTCCGGGGATGGC
GGCGGCTCCGCTGCTGCTGCTGCTGCTGCTCGTGCCCGTGCCGCTGCTGCCGCTGCTGGCCCAAGGGCCCGGAGG
GGCGCTGGGAAACCGGCATGCGGTGTACTGGAACAGCTCCAACCAGCACCTGCGGCGAGAGGGCTACACCGTGCA
GGTGAACGTGAACGACTATCTGGATATTTACTGCCCGCACTACAACAGCTCGGGGGTGGGCCCCGGGGCGGGACC
GGGGCCCGGAGGCGGGGCAGAGCAGTACGTGCTGTACATGGTGAGCCGCAACGGCTACCGCACCTGCAACGCCAG
CCAGGGCTTCAAGCGCTGGGAGTGCAACCGGCCGCACGCCCCGCACAGCCCCATCAAGTTCTCGGAGAAGTTCCA
GCGCTACAGCGCCTTCTCTCTGGGCTACGAGTTCCACGCCGGCCACGAGTACTACTACATCTCCACGCCCACTCA
CAACCTGCACTGGAAGTGTCTGAGGATGAAGGTGTTCGTCTGCTGCGCCTCCACATCGCACTCCGGGGAGAAGCC
GGTCCCCACTCTCCCCCAGTTCACCATGGGCCCCAATATGAAGATCAACGTGCTGGAAGACTTTGAGGGAGAGAA
CCCTCAGGTGCCCAAGCTTGAGAAGAGCATCAGCGGGACCAGCCCCAAACGGGAACACCTGCCCCTGGCCGTGGG
CATCGCCTTCTTCCTCATGACGTTCTTGGCCTCCTAGCTCTGCCCCCTCCCCTGGGGGGGGAGAGATGGGGCGGG
GCTTGGAAGGAGCAGGGAGCCTTTGGCCTCTCCAAGGGAAGCCTAGTGGGCCTAGACCCCTCCTCCCATGGCTAG
AAGTGGGGCCTGCACCATACATCTGTGTCCGCCCCCTCTACCCCTTCCCCCCACGTAGGCACTGTAGTGGACCAA
GCACGGGGACAGCCATGGGTCCCGGGCGGCCTTGTGGCTCTGGTAATGTTTGGTACCAAACTTGGGGGCCAAAAA
GGGCAGTGCTCAGGACTCCCTGGCCCCTGGTACCTTTCCCTGACTCCTGGTGCCCTCTCCCTTTGTCCCCCCAGA
GAGACATATGCCCCCAGAGAGAGCAAATCGAAGCGTGGGAGGCACCCCCATTGCTCTCCTCCAGGGGCAGAACAT
GGGGAGGGGACTAGATGGGCAAGGGGCAGCACTGCCTGCTGCTTCCTTCCCCTGTTTACAGCAATAAGCACGTCC
TCCTCCCCCACTCCCACTTCCAGGATTGTGGTTTGGATTGAAACCAAGTTTACAAGTAGACACCCCTGGGGGGGC
GGGCAGTGGACAAGGATGGCAAGGGGTGGGCATTGGGGTGCCAGGCAGGCATGTACAGACTCTATATCTCTATAT
ATAATGTACAGACAGACAGAGTCCCTTCCCTCTTTAACCCCCTGACCTTTCTTGACTTCCCCTTCAGCTTCAGAC
CCCTTCCCCACCAGGCTAGGCCCCCCACACCTGGGGGACCCCCTGGCCCCTCTTTTGTCTTCTGTGAAGACAGGA
CCTATGCAACGCACAGACACTTTTGGAGACCGTAAAACAACAACGCCCCCTCCCTTCCAGCCCTGAGCCGGGAAC
CATCTCCCAGGACCTTGCCCTGCTCACCCTATGTGGTCCCACCTATCCTCCTGGGCCTTTTTCAAGTGCTTTGGC
TGTGACTTTCATACTCTGCTCTTAGTCT

FIGURE 60A

CGCCGGCCGAGGAGGAGGGGTGGGGGTAGCGGCGGCGCCCGCGGCCCGGAGCGGGGGTTGGGGGAGTAGAGAAAG
CGGGGCGCGCGGAGGAACGCTGGGTCCCCGGCGCCGCGGGAGCTGGGAGGACCGAGCCGGCCGAGCGAGCAGCGC
GGCAGCACAGTCCCCGCGTGGCGCAGCGCGGCGGGGACGCGGGGACCGCCCGGATCTCCTTCCACTGCGCCCCGC
GCTCTGCGGTCCTCGGCCGCCTCTTCTTCCTTCACTCACTGCCCGGGCGGGAGCGGCGCCCAAGTCGGGTGCGCC
ATGTCTGGGGCCGGGTAGCCCCGCCGCCCGCCGGCCCGCCAGCTCGCCCTCCGAGCCACCCGCCAGCGGGCCGGC
CGGCCGGGAAGCGCGGGACAGGCAGATGCAGTGAGTGAGGGGGGGGCCATGGCGGAGGAGCGGCCCCCCCGGCTG
GTGGATTACTTCGTGGTAGCTGGGCTTGCAGGGAACGGAGCACCCATCCCTGAGGAAACGTGGGTTCCTGAACCC
AGTGGGCCCCTGCGCCCTCCCCGGCCAGCTGAGCCCATCACAG**ATG**TGGCAGTCATCGCTAGGGCACTGGGCGAG
GAAGTGCCCCAGGGCTACACATGCATCCAGGCTTCTGCTGGGGGCCACCCCTTGGAACTCAGTGCTGGACTTCTG
GGTGGAACTCAACCCGTCATCTGCTACCGCAGGGGCCGTGACAAGCCCCCCCTCGTTGAGCTGGGGGTGTTGTAT
GAGGGGAAGGAACGTCCCAAGCCTGGCTTCCAAGTGCTTGACACGACACCCTACAGCCACTCAGCAAACCTGGCC
CCTCCAGGCCCCGGGCACCCCCGCACCTACCTCACTTACCGGCGGGCAGCAGAGGGGGCAGGGCTGCATGCCCTG
GGCATCACTGACCTCTGCCTGGTGCTGCCCAGTAAGGGCGAGGGCACTCCTCATACTTACTGCCGGCTGCCCCGC
AACCTCAACCCTGGCATGTGGGGCCCAGCAGTGTACCTGTGCTATAAGGTGGGCCTGGCGAAGGCCAACACGCTG
GTGTACGAGGCAGTTCTACGAGGCGTTCCCAAGGGCCAGGCTATCAGAGCGACAGGCACGGGCACTGGGCCTGCT
GAGCGCCGTGGAGCGGGGTCGGGCACTGGGGGGCAGAGCTGTGCGCAGCCGGCGTGCCATCGCTGTGCTGTCCCG
CTGGCCTGCCTTCCCTGCCTTCCGCGCCTTCCTCACCTTCCTTTACCGCTACTCCGTCTCAGGCCCCCACCGCCT
ACCCTTGGAAGCGCACATCTCCCACTTCATTCACAACGTTCCCTTCCCTTCCCCACAGAGACCCCGCATCCTAGT
GCAGATGTCTCCCTATGACAACTTGCTCCTCTGTCAGCCTGTATCCTCACCCCTGCCCCTCAGTGGTGCCAGCTT
CCTGCAGCTGCTGCAGAGCCTGGGCCCTGAGCTGGCTATCACACTGCTGCTGGCTGTGCTCACAGAGCACAAGCT
GCTAGTCCACTCGCTGCGGCCAGACCTGCTCACCAGCGTCTGTGAGGCCCTCGTCTCGATGATCTTCCCACTGCA
CTGGCAGTGCCCCTACATTCCTCTGTGCCCGCTGGTGCTGGCAGATGTGCTGAGTGCCCCAGTGCCCTTCATTGT
GGGTATCCACTCCAGCTACTTTGATCTGCATGACCCGCCTGCTGATGTCATCTGTGTAGACCTTGATACCAACAC
GCTCTTCCAGACTGAGGAAAAGAAGCTCCTCTCCCCTCGGACCCTGCCCCGCAGACCCTACAAGGTTCTGCTGGC
CACACTGACAAACCTGTACCAGCAGCTGGACCAGACATACACTGGACCTGAGGAGGAAGCATCCCTGGAGTTCCT
ACTGACAGACTACGAGGCAGTGTGTGGCCGCAGGGCCCGGCTGGAGCGCGAAGTCCAAGGAGCCTTCCTCCGCTT
CATGGCCTGTCTGCTCAAGGGCTACCGGGTCTTCCTGCGCCCACTCACCCAGGCCCCCTCCGAGGGAGCTCGTGA
TGTTGACAACCTTTTCTTCCTGCAGGGCTTCCTCAAATCCCGGGAACGCTCCAGCCACAAACTTTACTCTCAGCT
GCTGCACACACAGATGTTCTCACAGTTCATTGAGGAGTGCTCTTTTGGCTCTGCTCGCCATGCTGCCCTTGAATT
CTTTGACTCTTGTGTTGAAAAGGTCCACCCAGAGCAGGAGAAGCCTGAGCCGACACCCTTAGTGGAGCTAGAGGA
GCTGTCAGGAAGTGAGCTCACTGTCTTTATCACACCTCCCGAGGAGCCTGCCTTACCAGAGGGCAGTGAATCCAC
TCCCCAGTACTGCTATGATGGATTCCCAGAGCTACGGGCTGAGTTGTTTGAGTCTCTTCAAGAGCAACCTGGGGC
CCTGCCTGTGCCAGGCCCTTCCCGTAGCGCCCCCAGCAGTCCTGCTCCTCGCCGTACCAAACAGGAGATGAAAGT
TGCACAGCGGATGGCACAGAAGTCAGCAGCTGTGCCTGAGCTGTGGGCCCGGTGCCTGCTGGGGCACTGCTATGG
GCTGTGGTTCCTGTGTCTGCCTGCCTATGTGCGGTCGGCACCCTCCCGAGTGCAGGCACTGCACACAGCCTACCA
TGTGCTGCGCCAGATGGAGAGCGGCAAGGTGGTGCTCCCTGATGAGGTGTGTTACCGGGTACTGATGCAGCTCTG
CTCACACTATGGGCAGCCTGTGCTGTCTGTGCGGGTCATGCTGGAGATGCGTCAGGCAGGCATTGTGCCCAACAC
CATCACCTATGGCTACTACAATAAGGCTGTGTTGGAAAGCAAGTGGCCGTCTGGCACACCAGGTGGGCGTCTGCG
CTGGGCCAAGCTCCGGAATGTTGTCCTGGGGGCTGCTCAGTTCCGCCAGCCCTTGAGAGAACGGCAACAGCAGCA
GCAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGGAGCAGGTGTCAGCACATCAAGAGGCAGGCAGCTCCCA
GGCAGAGCCCTATTTGGAGCGCCCTTCCCCTACTCGCCCTCTTCAGCGCCAGACTACTTGGGCTGGGCGAAGTCT
GAGAGACCCAGCCTCACCCCCTGGACGCCTGGTGAAGAGTGGTAGCCTGGGCAGTGCCCGAGGGGCACAGCCCAC
TGTGGAGGCCGGTGTGGCCCACATGATAGAGGCCTTGGGGGTCCTGGAACCCCGGGGATCACCTGTGCCCTGGCA
CGATGGAAGTCTCTCAGACCTGAGCCTGACAGGGGAGGAGCCGCTCCCTGGAGGCAGCCCAGGGGGCTCAGGCTC
AGCCCTGAGTGCCCAGTCCACTGAGGCCCTGGAAGGGCTAAGTGGGCGGGGACCCAAGGCTGGTGGGCGACAGGA
TGAGGCAGGCACCCCCCGACGAGGGCTGGGTGCCCGCCTCCAACAGCTGCTCACTCCTTCCCGCCACTCCCCTGC
CTCCCGCATTCCCCCACCTGAGCTGCCTCCTGACCTGCCACCCCCAGCCCGCCGCAGCCCCATGGACAGTCTTCT
GCACCCCCGGGAGCGCCCTGGATCCACTGCCTCCGAGAGCTCAGCCTCTCTGGGCAGTGAGTGGGACCTCTCAGA

FIGURE 60B

ATCTTCTCTCAGCAACCTGAGTCTTCGCCGTTCCTCAGAGCGCCTCAGTGACACCCCTGGATCCTTCCAGTCACC
TTCCCTGGAAATTCTGCTGTCCAGCTGCTCCCTGTGCCGTGCCTGTGATTCGCTGGTGTATGATGAGGAAATCAT
GGCTGGCTGGGCACCTGATGACTCTAACCTCAACACAACCTGCCCCTTCTGCGCCTGCCCCTTTGTGCCCCTGCT
CAGTGTCCAGACCCTTGATTCCCGGCCCAGTGTCCCCAGCCCCAAATCTGCTGGTGCCAGTGGCAGCAAAGATGC
TCCTGTCCCTGGTGGTCCTGGCCCTGTGCTCAGTGACCGAAGGCTCTGCCTTGCTCTGGATGAGCCCCAGCTCTG
CAACGGGCACATGGGGGGAGCCTCCCGGCGGGTTGAGAGTGGGGCATGGGCATACCTGAGCCCCCTGGTGCTGCG
TAAGGAGCTGGAGTCGCTGGTAGAGAACGAGGGCAGTGAGGTGCTGGCGTTGCCTGAACTGCCCTCTGCCCACCC
CATCATCTTCTGGAACCTTTTGTGGTATTTCCAACGGCTACGCCTGCCCAGTATTCTACCAGGCCTGGTGCTGGC
CTCCTGTGATGGGCCTTCGCACTCCCAGGCCCCATCTCCTTGGCTAACCCCTGATCCAGCCTCTGTTCAGGTACG
GCTGCTGTGGGATGTACTGACCCCTGACCCCAATAGCTGCCCACCTCTCTATGTGCTCTGGAGGGTCCACAGCCA
GATCCCCCAGCGGGTGGTATGGCCAGGCCCTGTACCTGCATCCCTTAGTTTGGCACTGTTGGAGTCAGTGCTGCG
CCATGTTGGACTCAATGAAGTGCACAAGGCTGTGGGGCTCCTGCTGGAAACTCTAGGGCCCCCACCCACTGGCCT
GCACCTGCAGAGGGGAATCTACCGTGAGATATTATTCCTGACAATGGCTGCTCTGGGCAAGGACCACGTGGACAT
AGTGGCCTTCGATAAGAAGTACAAGTCTGCCTTTAACAAGCTGGCCAGCAGCATGGGCAAGGAGGAGCTGAGGCA
CCGGCGGGCGCAGATGCCCACTCCCAAGGCCATTGACTGCCGAAAATGTTTTGGAGCACCTCCAGAATGCTAGAG
ACCTTAAGCTTCCCTCTCCAGCCTAGGGTGGGGAAGTGAGGAAGAAGGGATTCTAGAGTTAAACTGCTTCCCTGT
TGCCTTCATGGAGTTGGGAACAGGCTGGGAAGGATGCCCAGTCAAAGGCTCCAAGCGAGGACAACAGGAAGAGGG
ATCCACTGTTACCAAAAGTCCTGATTCCCCCATCACCAACCTACCCAGTTTGTTCGTGCTGATGTTGGGGGAGAT
CTGGGGGGAGTTGGTACAGCTCTGTTCTTCCCTTGTCCTATACCGGGAACTCCCCTCCAGGGTACCCACAGATCT
GCATTGCCCTGGTCATTTTAGAAGTTTTTGTTTTAAAAAACAACTGGAAAGATGCAGAGCTACTGAGCCTTTGCC
CTGAATGGGAGGTAGGGATGTCATTCTCCACCAATAATGGTCCCTCTTCCCTGACGTTGCTGAAGGAGCCCAAGG
CTCTCCATGCCTTTCTACCTAAGTGTTTGTATTTTATTTTAAATTATTTATTCTGGAGCCACAGCCCCCTTGCTT
ATGAGGTTCTTATGGAGAGTGAGAAAGGGAAGGGAAATAGGGCACCATGGTCCGGTGGTTTGTAGTTCCTTCAAA
GTCAGGCACTGGGAGCTAGAGGAGTCTCAAGCTCCCCTTAGGAAGAACTGGTGCCCCCTCCAGTCCTAATTTTTC
TTGCCTGCCCCGCCTTGGGGAATGCCTCACCCACCCAGGTCCTGACCTGTGCAATAAGGATTGTTCCCTGCGAAG
TTTTGTTGGATGTAAATATAGTAAAAGCTGCTTCTGTCTTTTTC

FIGURE 61

ATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATACCCGGCCTCC**ATG**GAGCTATT
TAAAGCAGGTAGGCAAGTGAGCACTGCAGCCAATGCCACTGTATCCCTTGCAGGTATTCTGGATGGTGAAATGGA
CCCCAAAGGTATGTGTTCCTCACTGCTGTGGGTACTGAATGCCAAAGAATTTCTGGGCTGGTGTTGGGATTGTGT
GCAGGTTCAGGGAGCAGGACTCCTTCCCACCTGCTTCTGCTTCCTGTCCTGCCTTACTGGCTCTTTCTCCAACTC
TCCCATCACCAGTCTTTCTCTTTCAAGTACCTGCTAT**TGA**GGAGAACTTGCTAGATGACAAGCATTTGCTGAAGC
CATGGGATGCTAAGAAGCTATCCTCATCCTCTTCCCGACCTCGGTCCTGTGAAGTCCCTGGAATTAACATCTTTC
CATCTCCTGACCAGCCTGCCAATGTGCCTGTCCTCCCACCTGCCATGAACACGGGGGGCTCCCTACCTGACCTCA
CCAACCTGCACTTTCCCCCACCACTGCCCACCCCCCTGGACCCTGAAGAGACAGCCTACCCTAGCCTGAGTGGGG
GCAACAGTACCTCCAATTTGACCCACACCATGACTCACCTGGGCATCAGCAGGGGCATGGGCCTGGGCCCAGGCT
ATGATGCACCAGGACTTCATTCACCTCTCAGCCACCCATCCCTGCAGTCCTCCCTAAGCAATCCCAACCTCCAGG
CTTCCCTGAGCAGTCCTCAGCCCCAGCTTCAGGGCTCCCACAGCCACCCCTCTCTGCCTGCCTCCTCCTTGGCCC
GCCATGTACTGCCCACCACCTCCCTGGGCCACCCCTCACTCAGTGCTCCGGCTCTCTCCTCCTCCTCTTCCTCCT
CCTCCACTTCATCTCCTGTTTTGGGCGCCCCCTCTTACCCTGCTTCTACCCCTGGGG

FIGURE 62

GCCGGAAGCGCGCGGAGACCATGTAGTGAGACCCTCGCGAGGTCTGAGAGTCACTGGAGCTACCAGAAGCATCATG
GGGGCCCTGGGGAGAGCCAGAGCTCCTGGTGTGGCGCCCCGAGGCGGTAGCTTCAGAGCCTCCAGTGCCTGTGGG
GCTGGAGGTGAAGTTGGGGGCCCTGGTGCTGCTGCTGGTGCTCACCCTCCTCTGCAGCCTGGTGCCCATCTGTGT
GCTGCGCCGGCCAGGAGCTAACCATGAAGGCTCAGCTTCCCGCCAGAAAGCCCTGAGCCTAGTAAGCTGTTTCGC
GGGGGGCGTCTTTTTGGCCACTTGTCTCCTGGACCTGCTGCCTGACTACCTGGCTGCCATAGATGAGGCCCTGGC
AGCCTTGCACGTGACGCTCCAGTTCCCACTGCAAGAGTTCATCCTGGCCATGGGCTTCTTCCTGGTCCTGGTGAT
GGAGCAGATCACACTGGCTTACAAGGAGCAGTCAGGGCCGTCACCTCTGGAGGAAACAAGGGCTCTGCTGGGAAC
AGTGAATGGTGGGCCGCAGCATTGGCATGATGGGCCAGGGGTCCCACAGGCGAGTGGAGCCCCAGCAACCCCCTC
AGCCTTGCGTGCCTGTGTACTGGTGTTCTCCCTGGCCCTCCACTCCGTGTTCGAGGGGCTGGCGGTAGGGCTGCA
GCGAGACCGGGCTCGGGCCATGGAGCTGTGCCTGGCTTTGCTGCTCCACAAGGGCATCCTGGCTGTCAGCCTGTC
CCTGCGGCTGTTGCAGAGCCACCTTAGGGCACAGGTGGTGGCTGGCTGTGGGATCCTCTTCTCATGCATGACACC
TCTAGGCATCGGGCTGGGTGCAGCTCTGGCAGAGTCGGCAGGACCTCTGCACCAGCTGGCCCAGTCTGTGCTAGA
GGGCATGGCAGCTGGCACCTTTCTCTATATCACCTTTCTGGAAATCCTGCCCCAGGAGCTGGCCAGTTCTGAGCA
AAGGATCCTCAAGGTCATTCTGCTCCTAGCAGGCTTTGCCCTGCTCACTGGCCTGCTCTTCATCCAAATCTAGGG
GGCTTCAAGAGAGGGGCAGGGGAGATTGATGATCAGGTGCCCCTGTTCTCCCTTCCCTCCCCCAGTTGTGGGGAA
TAGGAAGGAAAGGGGAAGGGAAATACTGAGGACCAAAAAGTTCTCTGGGAGCTAAAGATAGAGCCTTTGGGGCTA
TCTGACTAATGAGAGGGAAGTGGGCAGACAAGAGGCTGGCCCCAGTCCCAAGGAACAAGAGATGGTCAAGTCGCT
AGAGACATATCAGGGGACATTAGGATTGGGGAAGACACTTGACTGCTAGAATCAGAGGTTGGACACTATACATAA
GGACAGGCTCACATGGGAGGCTGGAGGTGGGTACCCAGCTGCTGTGGAACGGGTATGGACAGGTCATAAACCTAG
AGTCAGTGTCCTGTTGGTCCTAGCCCATTTCAGCACCCTGCCACTTGGAGTGGACCCCTCCTACTCTTCTTAGCG
CCTACCCTCATACCTATCTCCCTCCTCCCATCTCCTAGGGGACTGGCGCCAAATGGTCTCTCCCTGCCAATTTTG
GTATCTTCTCTGGCCTCTCCAGTCCTGCTTACTCCTCTATTTTTAAAGTGCCAAACAAATCCCCTTCCTCTTTCT
CAAAGCACAGTAATGTGGCACTGAGCCCTACCCAGCACCTCAGTGAAGGGGGCCTGCTTGCTCTTTATTTTGGTC
CCGGATCCTGGGGTGGGGCAGAAATATTTTCTGGGCTGGGGTAGGAGGAAGGTTGTTGCAGCCATCTACTGCTGC
TGTACCCTAGGAATATGGGGACATGGACATGGTGTCCCATGCCCAGATGATAAACACTGAGCTGCCAAAACATTT
TTTTAAATACACCCGAGGAGCCCAAGGGGGAAGGGCAATGCCTACCCCCAGCGTTATTTTTGGGGAGGGAGGGCT
GTGCATAGGGACATATTCTTTAGAATCTATTTTATTAACTGACCTGTTTTGGGACCTGTTACCCAAATAAAAGAT
GTTTCTAG

FIGURE 63

AGAAAGAAAAGGTGTAGTGTTTGGGGAGGTCAACGGGCTATGCTGGCTTGACAGGGCTGGGCTCTTCAGAACAGA
AGCATGGATCTCGGAATCCCTGACCTGCTGGACGCGTGGCTGGAGCCCCCAGAGGATATCTTCTCGACAGGATCC
GTCCTGGAGCTGGGACTCCACTGCCCCCCTCCAGAGGTTCCGGTAACTAGGCTACAGGAACAGGGACTGCAAGGC
TGGAAGTCCGGTGGGGACCGTGGCTGTGGCCTTCAAGAGAGTGAGCCTGAAGATTTCTTGAAGCTTTTCATTGAT
CCCAATGAGGTGTACTGCTCAGAAGCATCTCCTGGCAGTGACAGTGGCATCTCTGAGGACCCCTGCCATCCAGAC
AGTCCCCCTGCCCCCAGGGCAACCAGTTCTCCTATGCTCTATGAGGTTGTCTATGAGGCAGGGGCCCTGGAGAGG
ATGCAGGGGGAAACTGGGCCAAATGTAGGCCTTATCTCCATCCAGCTAGATCAGTGGAGCCCAGCATTTATGGTG
CCTGATTCCTGCATGGTCAGTGAGCTGCCCTTTGATGCTCATGCCCACATCCTGCCCAGAGCAGGCACCGTAGCC
CCAGTGCCCTGTACAACCCTGCTGCCCTGTCAAACCCTGTTCCTGACCGATGAGGAGAAGCGTCTGCTGGGGCAG
GAAGGGGTTTCCCTGCCCTCTCACCTGCCCCTCACCAAGGCAGAGGAGAGGGTCCTCAAGAAGGTCAGGAGGAAA
ATCCGTAACAAGCAGTCAGCTCAGGACAGTCGGCGGCGGAAGAAGGAGTACATTGATGGGCTGGAGAGCAGGGTG
GCAGCCTGTTCTGCACAGAACCAAGAATTACAGAAAAAAGTCCAGGAGCTGGAGAGGCACAACATCTCCTTGGTA
GCTCAGCTCCGCCAGCTGCAGACGCTAATTGCTCAAACTTCCAACAAAGCTGCCCAGACCAGCACTTGTGTTTTG
ATTCTTCTTTTTTCCCTGGCTCTCATCATCCTGCCCAGCTTCAGTCCATTCCAGAGTCGACCAGAAGCTGGGTCT
GAGGATTACCAGCCTCACGGAGTGACTTCCAGAAATATCCTGACCCACAAGGACGTAACAGAAAATCTGGAGACC
CAAGTGGTAGAGTCCAGACTGAGGGAGCCACCTGGAGCCAAGGATGCAAATGGCTCAACAAGGACACTGCTTGAG
AAGATGGGAGGGAAGCCAAGACCCAGTGGGCGCATCCGGTCCGTGCTGCATGCAGATGAGATGTGAGCTGGAACA
GACCTTCCTGGCCCACTTCCTGATCACAAGGAATCCTGGGCTTCCTTATGGCTTTGCTTCCCACTGGGATTCCTA
CTTAGGTGTCTGCCCTCAGGGGTCCAAATCACTTCAGGACACCCCAAGAGATGTCCTTTAGTCTCTGCCTGAGGC
CTAGTCTGCATTTGTTTGCATATATGAGAGGGTACCTCAAATACTTCTGTTATGTATCTGTGATTTTATTTCTTC
TTTGGGTATAGGGTTGAGGGGAAATAAGTTTTGAGTGAGAAATAAACGTTTTAGCTGAAATTGT

FIGURE 64

GCGAGGCGCCACCGACGCGGAAGACTATAAGCCCCAGCGGGCGACGACCGAACGCCCCCGGGAACACCGGGCCCC
GAGCTCGGTCCCGCGCCCGAGGATCCTCCACGGGGCTAGATGGCTGCGTCGGGGGCGGGAGCGGAGGTGAGCGGG
CGCTAGGGCCGCGAGCCCCCGCCGGCCCTTCCTCCAGCGCCCTGCGGACCCCGCAGAAGGCGCTCGCCTCCCTAG
CCCGCAAAAACATATCGATTTTTCTCGCTGTGGCAACGGGGACGTCCTGATAGATCCTCTGCTCCAATAGGCAAC
TCCGGCCTTCCCTGCCCTGACCTGGAACCTCTGGGAGGGCTGCAGAGTAAGTGCCGCCTCTGCGCTCCGACGGAG
GCACGAGGCCTGTGGAGTAGGTCCCTCTGTTCCGACAGGTGCGACACTTGGCGCTCC**ATG**CTTGCGGGTGCCGGG
AGGCCTGGCCTCCCCCAGGGCCGCCACCTCTGCTGGTTGCTCTGTGCTTTCACCTTAAAGCTCTGCCAAGCAGAG
GCTCCCGTGCAGGAAGAGAAGCTGTCAGCAAGCACCTCAAATTTGCCATGCTGGCTGGTGGAAGAGTTTGTGGTA
GCAGAAGAGTGCTCTCCATGCTCTAATTTCCGGGCTAAAACTACCCCTGAGTGTGGTCCCACAGGATATGTAGAG
AAAATCACATGCAGCTCATCTAAGAGAAATGAGTTCAAAAGCTGCCGCTCAGCTTTGATGGAACAACGCTTATTT
TGGAAGTTCGAAGGGGCTGTCGTGTGTGTGGCCCTGATCTTCGCTTGTCTTGTCATCATTCGTCAGCGACAATTG
GACAGAAAGGCTCTGGAAAAGGTCCGGAAGCAAATCGAGTCCATA**TAG**CTACATTCCACCCTTGTATCCTGGGTC
TTAGAGACCCTATCTCAGACAGTGAAAGTGAAATGGACTGATTTGCACTCTTGGTTCTTTGGAGCCTTGTGGTGG
AATCCCCTTTTCCCCATCTTCTTCTTTCAGATCATTAATGAGCAGAATAAAAAGAGTAAAATGGT

FIGURE 65

GGGAGGAAAACTTCTTCCTGGCCTGGGCTCCGTGCCGCTCTGTTTGCCAACCGTCCAGTCCCGCCTACCAGTGCC
GGGCGCTCCCCACCCCTCCCCCGGCTCCCCCGGTGTCCGCCATGGCCAAAGCCTACGACCACCTCTTCAAGTTGC
TGCTGATCGGGGACTCGGGGGTGGGCAAGACTTGTCTGATCATTCGCTTTGCAGAGGACAACTTCAACAACACTT
ACATCTCCACCATCGGAATTGATTTCAAGATCCGCACTGTGGATATAGAGGGGAAGAAGATCAAACTACAAGTCT
GGGACACGGCTGGCCAAGAGCGGTTCAAGACAATAACTACTGCCTACTACCGTGGAGCCATGGGCATTATCCTAG
TATACGACATCACGGATGAGAAATCTTTCGAGAATATTCAGAACTGGATGAAAAGCATCAAGGAGAATGCCTCGG
CTGGGGTGGAGCGCCTCTTGCTGGGGAACAAATGTGACATGGAGGCCAAGAGGAAGGTGCAGAAGGAGCAGGCCG
ATAAGTTGGCTCGAGAGCATGGAATCCGATTTTTCGAAACTAGTGCTAAATCCAGTATGAATGTGGATGAGGCTT
TTAGTTCCCTGGCCCGGGACATCTTGCTCAAGTCAGGAGGCCGGAGATCAGGAAACGGCAACAAGCCTCCCAGTA
CTGACCTGAAAACTTGTGACAAGAAGAACACCAACAAGTGCTCCCTGGGCTGAGGACCCTTTCTTGCCTCCCCAC
CCCGGAAGCTGAACCTGAGGGAGACAACGGCAGAGGGAGTGAGCAGGGGAGAAATAGCAGAGGGGCTTGGAGGGT
CACATAGGTAGATGGTAAAGAGAATGAGGAGAAAAAGGAGAAAAGGGAAAAGCAGAAAGGAAAAAAAGGAAGAGA
GAGGAAGGGAGAAGGGAGAGGAATGAATTGAGGAAGTGAAAGAAGGCAAGGAGGTAGGAAGAGAGGGAGGAGGAA
AGGAAGGAGAGATGCCTCAGGCTTCAGACCTTACCTGGGTTTTCAGGGCAAACATAAATGTAAATACACTGATTT
ATTCTGTTACTAGATCAGGTTTTAGGGTCCTGCAAAAGGCTAGCTCGGCACTACACTAGGGAATTTGCTCCTGTT
CTGTCACTTGTCATGGTCTTTCTTGGTATTAAAGGCCACCATTTGCACAAAAAAAAAAAAAAA

FIGURE 66

CCTTTCCGGCGGTGACGACCTACGCACACGAGAACATGCCTCTCGCAAAGGATCTCCTTCATCCCTCTCCAGAAG
AGGAGAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTACTTCATGGATGTGAAATGCCCAG
GATGCTATAAAATCACCACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCT
GCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCCTTCAGGAGGAAGCAGCACTAAAAGCACTCTG
AGTCAAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT

FIGURE 67

ACTCAGGCAGCAGCCCCTTCTTTCTTGCCCCAGTCTCCAGTTCTCCAGTGTTCACAGGTGAGCCTACCAACAGCC.
ACTGCTCATGATGGAGGCCATCAAGAAAAAGATGCAGATGCTGAAGTTAGACAAGGAGAATGCTCTGGATCGGGC
AGAGCAAGCTGAAGCTGAGCAGAAGCAGGCAGAAGAAAGAAGTAAACAGCTGGAGGATGAGCTGGCAGCCATGCA
GAAGAAGCTGAAAGGGACAGAGGATGAGCTGGACAAGTATTCTGAAGCTTTGAAGGATGCCCAGGAGAAGCTGGA
ACTGGCAGAGAAGAAGGCTGCTGATGCTGAGGCTGAGGTGGCCTCCTTGAACCGTAGGATCCAGCTGGTTGAAGA
AGAGCTGGACCGTGCTCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGAAGCTGAAAAAGCTGCTGATGA
GAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCCAGGAAATCCA
ACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCAT
TGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAGTCTAAGTGTTCTGAGCTGGAGGAGGAGCT
GAAGAATGTCACCAACAACCTCAAGTCTCTTGAGGCTCAGGCGGAGAAGTACTCTCAAAAAGAAGATAAATATGA
GGAAGAAATCAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTGCTGAGAGATCGGTAGC
CAAGCTGGAAAAGACAATTGATGACCTGGAAGATGAGCTCTATGCCCAGAAACTGAAGTACAAGGCCATTAGCGA
GGAGCTGGACCACGCCCTCAATGACATGACCTCTATATAATTATCACCGTTTCTGCTCTGTTCTGGATCTGCCCC
CTTTACTCCTCGGGGAACCCAAGGCCCCACTCTCGCTCTGGATTCCATTTGGGTCAGCCTGGCTGGTCCCCAAGG
CATTAGGATGGGGGAGCAAAAAGCAACTTATGTATTTTCTTCCACCCCCACCCCAAATTAAAATGTTAAGCTGCT
GGA

FIGURE 68

GTCAGGGGGAAGCTGGAAGGCGTCGTTCTCCTTTCCCAGCTCTCCTGCCTGTCCGCCATGTTTTCAGGCCGGGTC
TGGCTTGGTCTTCCCCCGTAAGGAAATGGCCGGGGAGCTCCAGGGGACCCAGGCGCCGTCGCTTCGGCGGAGCCT
GGGCTGACCAGCCAGGACAGCGGGGTAAACCCGAACAATTCTGCGCGAGGTAGGGAGGCCATGGCGTCCGGCAGT
AACTGGCTCTCCGGGGTGAATGTCGTGCTGGTGATGGCCTACGGGAGCCTGGACTTGAAAGAGGAGATTGATATT
CGACTCTCCAGGGTTCAGGATATCAAGTATGAGCCCCAGCTCCTTGCAGATGATGATGCTAGACTACTACAACTG
GAAACCCAGGGAAATCAAAGTTGCTACAACTATCTGTATAGGATGAAAGCTCTGGATGCCATTCGTACCTCTGAG
ATCCCATTTCATTCTGAAGGCCGGCATCCCCGTTCCTTAATGGGCAAGAATTTCCGCTCCTACCTGCTGGATCTG
CGAAACACTAGTACGCCTTTCAAGGGTGTACGCAAAGCACTCATTGATACCCTTTTGGATGGCTATGAAACAGCC
CGCTATGGGACAGGGGTCTTTGGCCAGAATGAGTACCTACGCTATCAGGAGGCCCTGAGTGAGCTGGCCACTGCG
GTTAAAGCACGAATTGGGAGCTCTCAGCGACATCACCAGTCAGCAGCCAAAGACCTAACTCAGTCCCCTGAGGTC
TCCCCAACAACCATCCAGGTGACATACCTCCCCTCCAGTCAGAAGAGTAAACGTGCCAAGCACTTCCTTGAATTG
AAGAGCTTTAAGGATAACTATAACACATTGGAGAGTACTCTGTGACGGAGCTGAAGGACTCTTGCCGTAGATTAA
GCCAGTCAGTTGCAATGTGCAAGACAGGCTGCTTGCCGGGCCGCCCTCGGAACATCTGGCCCAGCAGGCCCAGAC
TGTATCCATCCAAGTTCCCGTTGTATCCAGAGTTCTTAGAGCTTGTGTCTAAAGGGTAATTCCCCAACCCTTCCT
TATGAGCATTTTTAGAACATTGGCTAAGACTATTTTCCCCCAGTAGCGCTTTTTTCTGGATTTGCATTCAGGTGT
TATTCTTAATGTTTCTGTCAAAGCTTCTTAAAAATCTTCACTTGGTTTCAGCCATAGTTCACCTTCCCTGTTCCA
GGTTTATTTAATTCCAAAGGTGAGAGTTGGAGTGAGATGTCTTCCATATCTATACCTTTGTGCACAGTTGAATGG
GAACTGTTTGGGTTTAGGGCATCTTAGAGTTGATTGATGGAAAAAGCAGACAGGAACTGGTGGGAGGTCAAGTGG
GGAAGTTGGTGAATGTGGAATAACTTACCTTTGTGCTCCACTTAAACCAGATGTGTTGCAGCTTTCCTGACATGC
AAGGATCTACTTTAATTCCACACTCTCATTAATAAATTGAATAAAAGGGAATGTTTTGGCACCTGATATAATCTG
CCAGGCTATGTGACAGTAGGAAGGAATGGTTTCCCCTAACAAGCCCAATGCACTGGTCTGACTTTATAAATTATT
TAATAAAATGAACTATTATCAAATAAAACGTATGAATCAGT

FIGURE 69

CCCGACTAAGTGACTTAAACTCCCACCTACTCCTGGAATAAGGAGTCAAAGCCCGGATAGGCGCAGTATTCTACC
TTGTAAATACTGTTATTTGTATATACTGTAA**ATG**ATGACATCGGTGGGCACTAACCGAGCCCGGGGAAACTGGGA
ACAACCTCAAAACCAAAACCAGACACAGCACAAGCAGCGGCCACAGGCCACTGCAGAACAAATTAGACTTGCACA
GATGATTTCGGACCATAATGATGCTGACTTTGAGGAGAAGGTGAAACAATTGATTGATATTACAGGCAAGAACCA
GGATGAATGTGTGATTGCTTTGCATGACTGCAATGGAGATGTCAACAGAGCTATCAATGTTCTTCTGGAAGGAAA
CCCAGACACGCATTCCTGGGAGATGGTCGGGAAGAAGAAGGGAGTCTCAGGCCAGAAGGATGGTGGCCAGACGGA
ATCCAATGAGGAAGGCAAAGAAAATCGAGACCGGGACAGAGACTATAGTCGGCGACGTGGTGGGCCACCAAGACG
GGGGAGAGGTGCCAGCCGTGGACGAGAGTTTCGAGGTCAGGAAAATGGATTGGATGGCACCAAGAGTGGAGGGCC
TTCTGGAAGAGGAACAGAAAGAGGCAGAAGGGGCCGTGGCCGAGGCAGAGGTGGCTCTGGTAGGCGAGGAGGAAG
GTTTTCTGCTCAAGGAATGGGAACCTTTAACCCAGCTGATTATGCAGAGCCAGCCAATACTGATGATAACTATGG
CAATAGCAGCGGCAATACGTGGAACAACACTGGCCACTTTGAACCAGATGATGGGACGAGTGCATGGAGGACTGC
AACAGAGGAGTGGGGGACTGAAGATTGGAATGAAGATCTTTCTGAGACCAAGATCTTCACTGCCTCTAATGTGTC
TTCAGTGCCTCTGCCTGCGGAGAATGTGACAATCACTGCTGGTCAGAGAATTGACCTTGCTGTTCTGCTGGGGAA
GACACCATCTACAATGGAGAATGATTCATCTAATCTGGATCCGTCTCAGGCTCCTTCTCTGGCCCAGCCTCTGGT
GTTCAGTAATTCGAAGCAGACTGCCATATCACAGCCTGCTTCAGGGAACACATTTTCTCATCACAGTATGGTGAG
CATGTTAGGGAAAGGATTTGGTGATGTCGGTGAAGCTAAAGGCGGCAGTACTACAGGCTCCCAGTTCTTGGAGCA
ATTCAAGACTGCCCAAGCCCTGGCTCAGTTGGCAGCTCAGCATTCTCAGTCTGGAAGCACCACCACCTCCTCTTG
GGACATGGGCTCGACGACACAATCCCCATCACTGGTGCAGTATGATTTGAAGAACCCAAGTGATTCAGCAGTGCA
CAGCCCCTTTACAAAGCGCCAGGCTTTTACCCCATCTTCAACCATGATGGAGGTGTTCCTTCAGGAGAAGTCACC
TGCAGTGGCTACCTCCACAGCTGCACCTCCACCTCCGTCTTCTCCTCTGCCAAGCAAATCCACATCGGCTCCACA
GATGTCGCCTGGATCTTCAGACAACCAGTCCTCTAGCCCTCAGCCGGCTCAGCAGAAACTGAAACAGCAGAAGAA
AAAAGCCTCCTTGACTTCTAAGATTCCTGCTCTGGCTGTGGAGATGCCTGGCTCAGCAGATATCTCAGGGCTAAA
CCTGCAGTTTGGGGCATTGCAGTTTGGGTCAGAGCCTGTCCTTTCTGATTATGAGTCCACCCCCACCACGAGCGC
CTCTTCAAGCCAGGCTCCAAGTAGCCTGTATACCAGCACGGCCAGTGAATCATCCTCTACAATTTCATCTAACCA
GAGTCAGGAGTCTGGTTATCAGAGCGGCCCAATTCAGTCGACAACCTATACCTCCCAAAATAATGCTCAGGGCCC
TCTTTATGAACAGAGATCCACACAGACTCGGCGGTACCCCAGCTCCATCTCTTCATCACCCCAAAAGGACCTGAC
TCAGGCAAAGAATGGCTTCAGTTCTGTGCAGGCCACGCAGTTACAGACCACACAATCTGTTGAAGGTGCTACAGG
CTCTGCAGTGAAATCTGATTCACCTTCCACTTCTAGCATCCCCCCTCTCAATGAAACGGTATCTGCAGCTTCCTT
ACTGACGACAACCAATCAGCATTCATCCTCCTTGGGTGGCTTGAGCCACAGTGAGGAGATTCCAAATACTACCAC
CACACAACACAGCAGCACGTTATCTACGCAGCAGAATACCCTTTCATCATCAACATCTTCTGGGCGCACTTCGAC
ATCCACTCTTTTGCACACAAGTGTGGAGAGTGAGGCGAATCTCCATTCTTCCTCCAGCACTTTTTCCACCACATC
CAGCACAGTCTCTGCACCTCCCCCAGTGGTCAGTGTCTCCTCCAGTCTCAATAGTGGCAGTAGCCTGGGCCTCAG
CCTAGGCAGCAACTCCACTGTCACAGCCTCGACTCGAAGCTCAGTTGCTACGACTTCAGGAAAAGCTCCTCCCAA
CCTCCCTCCTGGGGTCCCGCCGTTGTTGCCTAATCCGTATATTATGGCTCCAGGGCTGTTACATGCCTACCCGCC
ACAAGTATATGGTTATGATGACTTGCAGATGCTTCAGACAAGATTTCCATTGGATTACTACAGCATCCCATTTCC
CACACCCACTACTCCGCTGACTGGGAGGGATGGTAGCCTGGCCAGCAACCCTTATTCTGGTGACCTCACAAAGTT
CGGCCGTGGGGATGCCTCCTCCCCAGCCCCGGCCACAACCTTGGCCCAACCCCAACAGAACCAGACGCAGACTCA
CCATACCACGCAGCAGACATTCCTGAACCCGGCGCTGCCTCCTGGCTACAGTTACACCAGCCTGCCATACTATAC
AGGGGTCCCGGGCCTCCCCAGCACCTTCCAGTATGGGCCTGCTGTGTTCCCTGTGGCTCCTACCTCTTCCAAGCA
GCATGGTGTGAATGTCAGTGTGAATGCATCGGCCACCCCTTTCCAACAGCCGAGTGGATATGGGTCTCATGGATA
CAACACTGGAAGAAAATATCCACCCCCTTACAAGCATTTCTGGACGGCTGAGAGC**TAA**TTTGGCCCAAGGCTGGG
GGCTGTGTTTTGTGTGTGTGTATAAATTTGCACTGAAGTCTTGTTTCAGAAACCAGACCACTGAGGAGAGCCTGC
TGAGCTGAGGCCATGGCCTGCGTGGCTTGGGGAAATGAGTTGGTGGATACCTTCTGGGCTTTTGAACTTGCCCCT
CCCCCATTTCCCTCTCCCCCATGTGTCTGACCCTGTCTTACCCATTTCAAGTTCAAGCGGTGCAGCACCTTCGAA
GCATCAATGCACACACCTGCTGTTGCTTTTGATTTCTGGAAGGCATGTAGTTTCAACTTGTAACAAAAATATTTG
TAGTCTTCAATAAACTGTGGTATTTCTTTAGCTAAC

FIGURE 70

GTCCGGCTTACCGTCGTTTACGACAGTGTCAGGATCGCGGGCTTGCTTTCCGGTAGCGTGGGCTGACGCCTCGCT
CAATTTCTCACAGGGCTGCGCAGGTTTCCCCCGTCTGCGAATGGACCACTGGAGGGGTTCAAAGGTTCGCGTCCC
AGTACGGGA**ATG**AGCCTCTTTGATCTCTTCCGGGGCTTTTTCGGCTTTCCTGGACCTCGGAGCCACAGAGATCCC
TTTTTTGGAGGGATGACTCGAGATGAAGATGATGATGAGGAAGAAGAAGAAGAAGGGGGCTCATGGGGCCGTGGG
AACCCAAGGTTCCATAGTCCTCAGCACCCCCCTGAGGAATTTGGCTTCGGCTTCAGCTTCAGCCCAGGAGGAGGG
ATACGTTTCCACGATAACTTCGGCTTTGATGACCTAGTACGAGATTTCAATAGCATCTTCAGCGATATGGGGGCC
TGGACCTTGCCTTCCCATCCTCCTGAACTTCCAGGTCCTGAGTCAGAGACACCTGGTGAGAGACTACGGGAGGGA
CAGACACTTCGGGACTCAATGCTTAAGTATCCAGATAGTCACCAGCCCAGGATCTTTGGGGGGGTCTTGGAGAGT
GATGCAAGAAGTGAATCCCCCCAACCAGCACCAGACTGGGGCTCCCAGAGGCCATTTCATAGGTTTGATGATGTA
TGGCCTATGGACCCCCATCCTAGAACCAGAGAGGACAATGATCTTGATTCCCAGGTTTCCCAGGAGGGTCTTGGC
CCGGTTCTACAGCCCCAGCCCAAATCCTATTTCAAGAGCATCTCTGTGACCAAGATCACTAAACCAGATGGGATA
GTGGAGGAGCGCCGGACTGTGGTGGACAGTGAGGGCCGGACAGAGACTACAGTAACCCGACACGAAGCAGATAGC
AGTCCTAGGGGTGATCCAGAATCACCAAGACCTCCAGCCCTGGATGATGCCTTTTCCATCCTGGACTTATTCCTG
GGACGTTGGTTCCGGTCCCGG**TAG**CCTTGTTAACCCTCAGAGGCCTTCAAGTCCTTTCCACCTCTCACCCATTGC
CCACCATTAATAAGCTTAGCTTCTCTTGCCACCTCAGGGGCTTGGATATGTGGAATAGTGAACTGGGGCCATGTC
AGTTTGTCACTCACCCAAACTGACCAATAAAACCTTTATTTATGCT

FIGURE 71

ATGGTCTTCACTCAGGCCCCGGCTGAAATCATGGGCCACCTCCGGATATGCAGCCTCCTGGCCCGGCAGTGCCTG
GCAGAGTTTCTGGGTGTGTTTGTACTCATGCTCCTCACCCAAGGAGCTGTGGCCCAGGCTGTCACCAGTGGAGAA
ACCAAAGGCAACTTCTTCACCATGTTTCTGGCTGGCTCTCTGGCCGTTACGATAGCCATCTACGTGGGTGGTAAC
GTCTCAGGTGAGGAGGGTGGGGTCTGGTCATCAGAGCAGGTGGGACGTGCATGTGAGCGTGTCGGTCTGGCGATG
GTGGAAACGCAAATCCTTCTG**TGA**

FIGURE 72

AGAGGGAGCAGTGAATAGCAATAGGGTGTTTCCACC**ATG**GTCTTCACTCAGGCCCCGGCTGAAATCATGGGCCAC
CTCCGGATACGCAGCCTCCTGGCCCGGCAGTGCCTGGCAGAGTTTCTGGGTGTGTTTGTACTCATGCTCCTCACC
CAAGGAGCTGTGGCCCAGGCTGTCACCAGTGGAGAAACCAAAGGCAACTTCTTCACCATGTTTCTGGCTGGCTCT
CTGGCCGTTACGATAGCCATCTACGTGGGTGGTAACGTCTCAGGGGCCCACCTGAATCCAGCCTTCTCCCTGGCC
ATGTGCATCGTTGGACGCCTCCCCTGGGTCAAGCTCCCCATTTACATCTTGGTGCAGTTGCTGTCTGCTTTCTGT
GCTTCGGGAGCCACCTATGTTCTCTACCATGATGCCCTACAGAACTATACAGGTGGGAACCTGACAGTGACTGGC
CCCAAGGAGACAGCCTCCATTTTTGCCACCTATCCTGCCCCCTATCTGTCCCTGAACAATGGCTTCCTGGATCAG
GTTCTGGGCACTGGGATGCTGATTGTGGGGCTCTTGGCCATCCTGGACAGACGGAACAAGGGAGTCCCTGCGGGT
CTGGAGCCTGTGGTGGTGGGGATGCTGATCCTGGCCCTCGGGTTATCCATGGGTGCCAACTGCGGGATTCCACTC
AACCCTGCCCGGGACCTGGGCCCACGTCTCTTCACCTACGTGGCTGGCTGGGGTCCTGAAGTCTTCAGGTGGGAG
ACAGACTCTCCTGGTGCTGGCCTCCACTCACCTTCCTCTGCTAAGGGCTCTGTCCCTGGGTCCACAGCACTCTGC
CTT**TAA**AATAGCTCTCTTGGCTTCTTAGGACAGTGTTCTTTCTCCAAGTCATATTCTCCCCCTTTCTCCCTTGCT
TCCCTCCCAACTTTTCACTGAAACAGTAAGATTTAGAGGTTGTGTTCTTAGGCATGCCACATTACTTCCATGCAC
ATTAGTGACTTCATCAGCAAAATTAATATATTCAGATAATTCCCTAAGGCAAGAGGCTGGACCAAGCTCTCCTGG
GGTTCCCTCTTCTAAATACTATGCTTTGGTGACAAGGCAATCCTCTTCCTGGTGTCTACCACCCTGGGAACAACT
TTAGGGCACTCTCTTGTTACTGCCCCCCGTCCTTGGAGAGGGGAAGGCTAAGGGAGTCACTCCTGATACCTTCCC
ACTGTCCTTCTTTTGCAGTGCTGGTAATGGCTGGTGGTGGGTGCCTGTGGTGGCCCCTCTGGTGGGGGCCACCGT
TGGCACAGCCACTTACCAGCTGTTGGTGGCTCTGCACCACCCTGAGGGCCCAGAGCCAGCTCAGGATCTGGTGTC
TGCTCAACACAAAGCCTCAGAGTTGGAAACTCCTGCCTCAGCTCAGATGCTGGAGTGTAAGCTATGATTAGGACA
ACCCTCACTTCACTCATGGACCCTGGAGCCAGCCACTGACCCCGCCTGGGAACAACAGTCATTCTTCCTCTTTGT
TAATGTGCCAGAACCTGGGAGGCTTCTCTGTTTATCTGTTTGGCATCCCTTCCTCCTAAACTAAGAAGGATCCTG
GACAGGGAGAAGTGGAGGAGGATAAGGTACCAGGACTCAGGCTTCTCATCCCCTCCTCCCGCAAAGCGGTTTTCT
GACCCTCAGGGCCTCTCGGAATGTAGTTGCTCGAGGTAACCGCTAGAGGGTGCGCACCTGGATGCTGGATGGGGA
CGGCTGCGGGCATCTGCAGGGTGGAGGGGGCCACCATCCAGTGTAGGGCACAACCCTGGGGACTGCCCTCCATAG
CCTGTCCCGACTGCCGACTCCTAGCTCTCATCGCCTCGGCGCCTCCCACCTTCACCCTCTCGGGGATGCCTCCCC
AAGAGGGTAGTTAGGGGTGGGGAAGCCGCCTCCACCCAGGGGGCGTGGTGGGGGCGGAGGGAAGGAGGGCGGCGG
GGCACAGAGACAGAGAGCAAGGCTGTGAAACTGAGGCACCGTTCCTAGACATCTCGGTGCTGTGTCGTTCATTCA
AGGAGAGTTGAGATACAGTGAAATGAGCCAGGGCGAGGAGGGAGGGTGAAGGAACGGAGGGCGGGCGGCTCCGAG
GAGCGAGAGTCGGGCTGAGGGCAACCTGGCGCCAGGGAAAATTCTGGTTATTCACCACTTCTACAGCTCTCCTGC
CGCTCCCTGCAGAGGATGCTCGTTTTGCAGAGAAGGCAGTGTTCCTCTATTCCCTTCTTCCGAATTAAAAATACC
CCCTCAGAGCG

FIGURE 73A

AGCTCGCGGTGTCCCCGAGCGCCGGCGGCCGGGAGGATGGCCTGGGCTGCGGGTGGGGCGCGCGCCCGACGGCTG
GGGCTCCCCTCTGAGCGGCTGCGGCTCCTGCACCTCCCCGGGGAGCCGCCCCGTCGATGCCACTAAGGCCAAGGA
CATATAGACGGTCTGCCCTCCCCCACTCAAACCGGGATCATGACGGTCCCCAAGGAGATGCCCGAGAAGTGGGCC
CGGGCCCAGGCGCCTCCCTCTTGGAGCCGAAAGAAGCCCTCTTGGGGGACAGAAGAAGAAAGGAGGGCGCGGGCT
AATGACCGAGAATACAATGAGAAATTCCAGTATGCGAGTAACTGCATCAAGACCTCCAAGTACAATATTCTCACC
TTCCTGCCTGTCAACCTCTTTGAGCAGTTCCAGGAAGTTGCCAACACTTACTTCCTGTTCCTCCTCATTCTGCAG
TTGATCCCCCAGATCTCTTCCCTGTCCTGGTTCACCACCATTGTGCCTTTGGTTCTTGTCCTCACCATCACAGCT
GTTAAAGATGCCACTGATGACTATTTCCGCCACAAGAGCGATAACCAGGTGAATAACCGCCAGTCTCAGGTGCTG
ATCAATGGAATCCTCCAGCAGGAGCAGTGGATGAATGTCTGTGTTGGTGATATTATCAAGCTAGAAAATAACCAG
TTTGTGGCGGCGGATCTCCTCCTCCTTTCCAGCAGTGAGCCCCATGGGCTGTGTTACATAGAGACAGCAGAACTT
GATGGCGAGACCAACATGAAAGTACGTCAGGCGATTCCAGTCACCTCAGAATTGGGAGACATCAGTAAGCTTGCC
AAGTTTGACGGTGAAGTGATCTGTGAACCTCCCAACAACAAACTGGACAAATTCAGCGGAACCCTCTACTGGAAG
GAAAATAAGTTCCCTCTGAGCAACCAGAACATGCTGCTGCGGGGCTGTGTGCTGCGAAACACCGAGTGGTGCTTC
GGGCTGGTCATCTTTGCAGGTCCCGACACTAAGCTGATGCAAAACAGCGGCAGAACAAAGTTCAAAAGAACGAGT
ATCGATCGCCTAATGAATACCCTGGTGCTCTGGATTTTTGGATTCCTGGTTTGCATGGGGGTGATCCTGGCCATT
GGCAATGCCATCTGGGAGCACGAGGTGGGGATGCGTTTCCAGGTCTACCTGCCGTGGGATGAGGCAGTGGACAGT
GCCTTCTTCTCTGGCTTCCTCTCCTTCTGGTCCTACATCATCATCCTCAACACCGTTGTGCCCATTTCACTCTAT
GTCAGTGTGGAGGTCATCCGTCTGGGCCACAGCTACTTCATCAACTGGGATAAGAAGATGTTCTGCATGAAGAAG
CGGACGCCTGCAGAAGCCCGCACCACCACCCTAAACGAGGAGCTGGGCCAGGTGGAGTACATCTTCTCCGACAAG
ACGGGCACCCTCACCCAGAACATCATGGTTTTCAACAAGTGCTCCATCAATGGCCACAGCTATGGTGATGTGTTT
GACGTCCTGGGACACAAAGCTGAATTGGGAGAGAGAGGCCTGAACCTGTTGACTTCTCCTTCAATCCTCTGGCTG
ACAAGAAGTTCTTATTTTGGGACCCCAGCCTGCTGGAGGCTGTCAAGATCGGGGACCCCCACACGCATGAGTTCT
TCCGCCTCCTTTCCCTGTGTCATACTGTC**ATG**TCAGAAGAAAAGAACGAAGGAGAGCTGTACTACAAAGCTCAGT
CCCCAGATGAGGGGGCCCTGGTCACCGCAGCCAGGAACTTTGGTTTTGTTTTCCGCTCTCGCACCCCCAAAACAA
TCACCGTCCATGAGATGGGCACAGCCATCACCTACCAGCTGCTGGCCATCCTGGACTTCAACAACATCCGCAAGC
GGATGTCGGTCATAGTGCGGAATCCAGAGGGGAAGATCCGACTCTACTGCAAAGGGGCTGACACTATCCTACTGG
ACAGACTGCACCACTCCACTCAAGAGCTGCTCAACACCACCATGGACCACCTTAATGAGTACGCAGGGGAAGGGC
TGAGGACCCTGGTGCTGGCCTACAAGGATCTGGATGAAGAGTACTACGAGGAGTGGGCTGAGCGACGCCTCCAGG
CCAGCCTGGCCCAGGACAGCCGGGAGGACAGGCTGGCTAGCATCTATGAGGAGGTTGAGAACAACATGATGCTGC
TGGGTGCAACGGCCATTGAGGACAAACTTCAGCAAGGGGTTCCAGAGACCATTGCCCTCCTGACACTGGCCAACA
TCAAGATTTGGGTGCTAACCGGAGACAAGCAAGAGACGGCTGTGAACATCGGCTATTCCTGCAAGATGCTGACGG
ATGACATGACTGAGGTTTTCATAGTCACTGGCCATACTGTCCTGGAGGTGCGGGAGGAGCTCAGGAAAGCCCGGG
AGAAGATGATGGACTCATCCCGCTCCGTAGGCAACGGCTTCACCTATCAGGACAAGCTTTCTTCTTCCAAGCTAA
CTTCTGTCCTGGAGGCCGTTGCTGGGGAGTACGCCCTGGTCATAAATGGTCACAGCCTGGCCCACGCACTGGAGG
CAGACATGGAGCTGGAGTTTCTGGAGACAGCGTGTGCCTGCAAAGCTGTCATCTGCTGCCGGGTGACCCCCTTGC
AGAAGGCACAGGTGGTAGAACTGGTCAAGAAGTACAAGAAGGCTGTGACGCTTGCCATTGGAGACGGAGCCAATG
ATGTCAGCATGATCAAAACGGCTCACATTGGTGTGGGGATCAGTGGGCAGGAAGGGATCCAGGCTGTCTTGGCCT
CCGATTACTCCTTCTCCCAGTTCAAGTTCCTGCAGCGCCTCCTGCTGGTGCATGGGCGCTGGTCCTACCTGCGAA
TGTGCAAGTTTCTTTGCTATTTCTTCTACAAAAACTTTGCTTTCACCATGGTCCACTTCTGGTTTGGCTTCTTCT
GTGGCTTCTCAGCCCAGACCGTCTATGACCAGTATTTCATCACCCTGTATAACATCGTGTACACCTCCCTGCCAG
TCCTGGCTATGGGGGTCTTTGATCAGGATGTCCCCGAGCAGCGGAGCATGGAGTACCCTAAGCTGTATGAGCCGG
GCCAGCTGAACCTTCTCTTCAACAAGCGGGAGTTCTTCATCTGCATCGCCCAGGGCATCTACACCTCCGTGCTCA
TGTTCTTCATTCCCTATGGGGTGTTTGCTGATGCCACCCGGGATGATGGCACTCAGCTGGCTGACTACCAGTCCT
TTGCAGTCACTGTGGCCACATCCTTGGTCATTGTGGTTAGCGTGCAGATTGGGCTCGACACAGGCTACTGGACGG
CCATCAACCACTTCTTCATCTGGGGAAGCCTTGCTGTTTACTTTGCCATCCTCTTTGCCATGCACAGCAATGGGC
TCTTCGACATGTTTCCCAACCAGTTCCGGTTTGTGGGGAATGCCCAGAACACCTTGGCCCAGCCCACGGTGTGGC
TGACCATTGTGCTCACCACAGTCGTCTGCATCATGCCCGTGGTTGCCTTCCGATTCCTCAGGCTCAACCTGAAGC
CGGATCTCTCCGACACGGTCCGCTACACACAGCTCGTGAGGAAGAAGCAGAAGGCCCAGCACCGCTGCATGCGGC

FIGURE 73B

GGGTTGGCCGCACTGGCTCCCGGCGCTCCGGCTATGCCTTCTCCCATCAGGAGGGCTTCGGGGAGCTCATCATGT
CTGGCAAGAACATGCGGCTGAGCTCTCTCGCGCTCTCCAGCTTCACCACCCGCTCCAGCTCCAGCTGGATTGAGA
GCCTGCGCAGGAAGAAGAGTGACAGTGCCAGTAGCCCCAGTGGCGGTGCCGACAAGCCCCTCAAGGGCTGAAGGC
CGAGGATGGATGCCCTGTGCCAGTGACCAGAGCACCCAGGGCTGGCCAGTCACTGAGGGAACAGCGTCTCGGAAC
TGCTGGTCCTCATTCCTTGCTTCCCGTCCCCCCGGTAGACTCTGTCCTGCTGGTCCCACCACACATGGCTGGGAC
ATCTGTTCCCAGCTGTAGGCCCTTCCACCAGCTGGGGAGCTAGAGGGAGCAGGCCCAAGGGCAGAGCAGAGGCTG
AGGCACGGGGAGCCAGCCCCACTCGGGGACCAGAAGTGGAACCAAAAACAAGAAAAAACTGTGAGAGATTGTGTC
TGCCCCTGCCCTGCCTGGGACCCACAGGGAGACTATAATCTCCTTATTTTTTTACTCCTACTCCCCAGAGGGGCC
CTAGTGCCTCTGTTCCTGAATTACATAAGAATGTACCATGCCGGGAAGCCAGAGACCTGCAGGGGCCTCGGCCCC
TCACATCGTGTATGTCTCTCCTTGATTTGTGTTGTGTCCAGTTTGGTTTTGTCTTTTTTTATTTGGCAAGTGGAG
GAGGCTTTTATGTGACTTTTATGTTGTGGTTGGTGTCTTAACTCTCCTGGGAAAAGGAGGCTGGCACACACTGGG
ATGCCGCAGCCTGGCCGGCTGTGGGGTGGTTTGGGAGGATCCATGTCGGCTCTGCCTGCAGTGACCAGTGCTCTG
TGGGGCAGAGGAGCTGACCAGGGAGGGAGGTACCCATGAGCAGAGGGTAGTGGGAGAGTGTAAAGGAGGGTTTGG
TCCTGTCTGCTTCCTCACCTTGAGAGTAAAGTGCTGCCCTCTGCCCCCAACACACACACATATCAATTCCTGGAT
TCCTTAGTCCTGCTGGCCTTGGGCTGGAGCCTAGGAAAGTGGCCCCCAAATCCTTAGTGAGCTAAAGCTGGGTCT
GAAATTTGGTCAGTGGGGAGGGGTAGTTTTCTTTTCTTTTTTCTTTTTCTTTTTTTCTTTTTTTTTTTGAGATGG
AGTCTCACTCTTGTCACCTAGGCAAGAGTGCAATGGCACAATCTCAGCTCACTGCAACCTCCACCTCCTGGGTTC
AAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACACACCACCACGCTTGGTTAATTTTTGT
ATTTTTAGTAGAGATGTTTCACCATGTTGGCCAGGCTAGTCTTGAATTCCTGACCTCCTGACCTGCCCACCTCAA
CCTCCCAAAGTGCTGAGATTACAGGCGTGAGCCACCACACCCAGCTCAGGGAGGCGTAGTTTTCTTTAATTTTAA
ATTTAAACCCAAGTTTATTGGCAGACTCCCTTTTGACCTCCCTTTGCCTCCCCATCTGGTGCTTTCTTGCATCTA
CACCCCAGGGCCCTGTGGTGGGGCTGCAGGGGGAAGCTGTGCACCTGAGATGAGGCTGGAACGGGAATTGGCCTC
TCTGCTCCCTTCTTCAGTAAGCAAGGAGCCCCGCCCCTCAGGCCCAGCCTCTGGCAAGAGGTGGTGGAATCCTTG
TGCCGGGTAGTAGAGGAGGATAAGGGCAAAACCAGGCCCAGGCCAGTGCCTGGCTTGGTCTGGATGGGACACTGT
CAGAGTTTGGCCACAGCCTGTCCTTTACTTCATCCACACCTATGAAGCTATTCCCTAAATAAGGCATTTCCCAAG
TTAGTCGCTACCTAATCAGCCTTGAGAAGAATCCTTTCCTCTTCTTTGATAGTGGGTCGGGGGATTCTTCAGGAA
TGGTTTGGAGCTGGGAGTGGGTAGGGGGATTTTAAATGTTCCATATGGGAGCCCCAAAGGAACTGGATGGGCTGC
AGTGAGGTGGGGGCGGGTGGGCAGGGAATGGGAGAGGGGAAGTCTTGGCAGGGAAATCCCTTTTGGCCACACAGT
TTACAAACCCAGTATCATGTCTGTCTGTGTGTCTCTCAAGGTGAGAGTCTGATTTTTATACCAAAGAGGAAATGA
TTTTTTTTCATATTTTGTTTGTCTATATTATATAAATATATATATACAGTTATATATATATATATTATTTTTTGG
TTCTCTCTCGTTTTTTAGGGAGGGAAGAAAGTACCAAGTTGCATTGAGCTGTAATTAAGGAACATTATAATTTAT
GACACATTTCTATACTTGCAAAAATTATATCATTTTATGGATATAAGAGAAAAATGCCTTTTTATAAAATTTCAA
TTTCTGA

FIGURE 74

CCTACAGAGGGGTCCATACCGTGTTGTTCTGGATTCCCGTTGTAACTTAAAGGGAAATTTTCACAATGTCCAGAG
CCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTAGGTGGCACTA
ATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTACATCATAAATCTGAAGAGGA
CCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTTGCCATTGAAAACCCTGCTGATGTCAGTGTTATATCCT
CCAGGAATACTGGCCAGAGGGCCATGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCACTTCA
CTCCTGGAACCTTCACTAACCGGATCCAGGCAGCCTTCCGGGAGCCACAGCTTCCTGTGGTTACTGACCCCAGGG
CTGACCACCAGCCTCTCACGGAGGTATCTTATGTTAACTTACCTACCATTGCGCTGTGTAACACAGATTCTCCTC
TGCGCTATGTGGACATTGCCATCCCATGCAACAATAAGGGAGCTCACTCAGTGGGTTGGATGTGGTGGATGCTGG
CTCAGGAAGTTCTGCGCATGCGTGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGATCTCTGCTTCT
ACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAGAGGCAGTGACCAAGGAGGAATTTCAGG
GTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTCTGCAGG
TGCCCTCTGTGTCTATTCAGTAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAG
CTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGCATGGGCTCTTA
AGCAACATGGAAAAATGGTTGATGGAAAATAAATAAACATCAGTTTCT

FIGURE 75

CGCCGCCGCTCCAGCGCCGCGCAGCCACCGCCGCCGCCGCCGCCTCTCCTTAGTCGCCGCCATGACGACCGCGTC
CACCTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTA
CGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATA
CTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAAACTGATGAAGCTGCAGAACCAACGAGGTGGCCG
AATCTTCCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATT
ACATTTGGAAAAAAATGTGAATCAGTCACTACTGGAACTGCACAAACTGGCCACTGACATGAAAGCCATCAAAGA
ATTGGGTGACCACGTGACCAACTTGCGCAAGATGGGAGCGCCCGAATCTGGCTTGGCGGAATATCTCTTTGACAA
GCACACCCTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGGCTAATTTCCCCATAGCCGTGGGGTGACTTCCCT
GGTCACCAAGGCAGTGCATGCATGTTGGGG

FIGURE 76

CAGGGAGTCCCACCAGCCTAGTCGCCAGACCTTCTGTGGGATCATCGGACCCACCTGGAACCCCACCTGACCCAA
GCCCACCTGCTGCAGCCCACTGCCTGGCC**ATG**ACCATCACTTACACAAGCCAAGTGGCTAATGCCCGCTTAGGCT
CCTTCTCCCGCCTGCTGCTGTGCTGGCGGGGCAGCATCTACAAGCTGCTATATGGCGAGTTCTTAATCTTCCTGC
TCTGCTACTACATCATCCGCTTTATTTATAGGCTGGCCCTCACGGAAGAACAACAGCTGATGTTTGAGAAACTGA
CTCTGTATTGCGACAGCTACATCCAGCTCATCCCCATTTCCTTCGTGCTGGGCTTCTACGTGACGCTGGTCGTGA
CCCGCTGGTGGAACCAGTACGAGAACCTGCCGTGGCCCGACCGCCTCATGAGCCTGGTGTCGGGCTTCGTCGAAG
GCAAGGACGAGCAAGGCCGGCTGCTGCGGCGCACGCTCATCCGCTACGCCAACCTGGGCAACGTGCTCATCCTGC
GCAGCGTCAGCACCGCAGTCTACAAGCGCTTCCCCAGCGCCCAGCACCTGGTGCAAGCAGGCTTTATGACTCCGG
CAGAACACAAGCAGTTGGAGAAACTGAGCCTACCACACAACATGTTCTGGGTGCCCTGGGTGTGGTTTGCCAACC
TGTCAATGAAGGCGTGGCTTGGAGGTCGAATCCGGGACCCTATCCTGCTCCAGAGCCTGCTGAACGAGATGAACA
CCTTGCGTACTCAGTGTGGACACCTGTATGCCTACGACTGGATTAGTATCCCACTGGTGTATACACAGGTGGTGA
CTGTGGCGGTGTACAGCTTCTTCCTGACTTGTCTAGTTGGGCGGCAGTTTCTGAACCCAGCCAAGGCCTACCCTG
GCCATGAGCTGGACCTCGTTGTGCCCGTCTTCACGTTCCTGCAGTTCTTCTTCTATGTTGGCTGGCTGAAGGTGG
GCCTCTCCAGGGCCCTGCTGGGCTGGAGGCATGGCCAGAGGGGTCATGGCCAGCAGCTGCCTGAGACGAGGATGC
AGTGTCAGGAAAGGAAGGTCTCACGGGTAGAAAGCAGCCAGGCGTGGTGGCGCACACCTGTAATCCCAGCTACTC
GGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGTGGTGGCAGAGCAGCTCATCAACCCCTT
TGGAGAGGATGATGATGATTTTGAGACCAACTGGATTGTCGACAGGAATTTGCAGGTGTCCCTGTTGGCTGTGGA
TGAGATGCACCAGGACCTGCCTCGGATGGAGCCGGACATGTACTGGAATAAGCCCGAGCCACAGCCCCCCTACAC
AGCTGCTTCCGCCCAGTTCCGTCGAGCCTCCTTTATGGGCTCCACCTTCAACATCAGCC**TGA**ACAAAGAGGAGAT
GGAGTTCCAGCCCAATCAGGAGGACGAGGAGGATGCTCACGCTGGCATCATTGGCCGCTTCCTAGGCCTGCAGTC
CCATGATCACCATCCTCCCAGGGCAAACTCAAGGACCAAACTACTGTGGCCCAAGAGGGAATCCCTTCTCCACGA
GGGCCTGCCCAAAAACCACAAGGCAGCCAAACAGAACGTTAGGGGCCAGGAAGACAACAAGGCCTGGAAGCTTAA
GGCTGTGGACGCCTTCAAGTCTGCCCCACTGTATCAGAGGCCAGGCTACTACAGTGCCCCACAGACGCCCCTCAG
CCCCACTCCCATGTTCTTCCCCCTAGAACCATCAGCGCCGTCAAAGCTTCACAGTGTCACAGGCATAGACACCAA
AGACAAAAGCTTAAAGACTGTGAGTTCTGGGGCCAAGAAAAGTTTTGAATTGCTCTCAGAGAGCGATGGGGCCTT
GATGGAGCACCCAGAAGTATCTCAAGTGAGGAGGAAAACTGTGGAGTTTAACCTGACGGATATGCCAGAGATCCC
CGAAAATCACCTCAAAGAACCTTTGGAACAATCACCAACCAACATACACACTACACTCAAAGATCACATGGATCC
TTATTGGGCCTTGGAAAACAGGGATGAAGCACATTCCTAACCTGCTTCCTAATGGGGATGCTTCGCCAGCCAGGT
CCTCACCTGTGTGTACACCAGCAGGACACTGATCCAGTCACAGCCATACAGCTGTCCACACTGAAGAACATGTCC
TACAACAGCCTGAATCAAATGGTTAGCTTAATAGATAAAAATCCCAGACTACTTCAGCCTTTAATGCCTTTTATT
CATAAAAACTGTGAAAGCTAGACTGAACCATTGGAAACATTTAACTCAGACTCTGGATTCAGAGTCGGGAACCCT
TAGTTCTATCTGAATCCAAGACAGCCACACCTTAGTATACTGCCCAAACTAATGAGTTTAATAAATACAAATACT
CGTT

FIGURE 77

CTGGTGGGGGGAAGAAGGCTCCTGCTACCTCCCTTCCCGGCACCCTCCAGAGGGACCCTCAGTCTGGCCTTGCAA
GCATGGACTCTTCTGAGGAGCACGCTGGGTGCCCCGCCCGAGGGACATGTCCCGTGTTCCTGGCCATGAGTGCAG
GGACTGTCCGCTACGCCCCATCAGGCCTGTGCCCTGTACTTGAGGGGAACTTGAGAGAAGAGCCCTGGGGCACAG
ACAGCCCACCCCAGCCAGACCAGGGCCTCCCGCCGCCCCTTGCAGCTGTCCCGGTCCCCTGGAAGAGCACGGACC
CCTGCCAAGGCCACAGGGAGTCCCCAGGAGCCCTGGTGGAGACCTCTGCAGGGGAGGAGGCCCGAGGCCAGGAGG
GCCCCGCAGCCGCCCAGCTGGACGTGTTGCGCCTGCGCAGCTCTTCC**ATG**GAGATCCGAGAGAAGGGCTCCGAGT
TCCTGAAGGAGGAGCTGCACAGAGCGCAGAAGGAGCTGAAGCTAAAGGACGAGGAATGTGAGCGGCTGTCCAAGG
TGCGGGAGCAGCTAGAACAGGAGCTGGAAGAGCTGACGGCCAGCCTGTTTGAGGAAGCTCACAAGATGGTTCGAG
AAGCCAACATGAAGCAGGCGGCATCAGAAAAGCAGCTGAAGGAGGCTCGGGGCAAGATCGACATGCTGCAGGCAG
AGGTGACAGCCTTGAAGACGCTGGTCATCACGTCCACACCAGCCTCTCCCAACCGCGAGCTTCACCCCCAGCTGC
TGAGCCCCACCAAGGCCGGGCCCCGAAAGGGCCACTCTCGCCACAAGAGCACCAGCAGCACCCTCTGCCCCGCCG
TGTGTCCCGCTGCGGGACACACCCTCACCCCAGACAGAGAGGGCAAGGAGGTGGACACAATCCTGTTTGCAGAGT
TCCAGGCCTGGAGGGAATCCCCCACCCTGGACAAGACCTGCCCCTTCCTGGAAAGGGTGTACCGGGAGGACGTGG
GCCCCTGCCTGGACTTCACGATGCAGGAGCTCTCGGTGCTGGTACGGGCCGCCGTGGAGGACAACACGCTCACCA
TTGAGCCGGTGGCTTCGCAGACGCTGCCCACAGTGAAGGTGGCCGAGGTTGACTGTAGCAGCACCAACACATGTG
CCCTGAGCGGGCTGACCCGCACCTGCCGCCACCGAATCCGGCTCGGGGACTCCAAAAGCCATTACTACATCTCGC
CATCTTCCCGGGCCAGGATCACCGCAGTGTGCAACTTCTTCACCTACATCCGCTACATCCAGCAAGGCCTGGTGC
GGCAGGACGCAGAGCCCATGTTCTGGGAGATCATGAGGTTGCGGAAGGAGATGTCACTGGCCAAGCTCGGCTTCT
TCCCCCAGGAGGCT**TAG**GGCGCGGCCCAGGCCTGAAGGGGAGCTCTGAGACAGAGCAAACACCCACCCCAGAACA
AGCCGACACACAGGGAGACGGGGGCCTGGAGCCAGCCCTGAGCCAGAGGCAGAATGGATGGACAGACAGGCCATG
GAGGCAGCACTGAGCCAGCACCACACGTCCATCCTGGGACAGACGGGCCTGGACTTCACGGCAAGACCCCCCTCT
CTTCCCCACTGGGTTCTGCCACCACCAGGAGGATTTCAAGAAAGCACCAAAGACCAGGGAGCTCGGATCCATACT
CGGGGGGCCTCAGCCCTTGGGAGGGGACACCTGAGGCAGCCAGCGCCCCCTCCCCAGTCCCCAGAACTGCCTGCA
GGTGCCTTGTTGCTGGCTTGTCTTCAGAAAGGGACTGTTCTGGGTGGCTGGATCTCCAGGGTACCCTCCACCCCA
GCTGCCAAGCCCTGGGCCAGCAGCACCCCCTTGTGGCCATCCTGTGCCTTGTTCCCGGTGGCCTCCCTATTGGAC
TACTAGGAGGGGCTGGCAGGGCCTCCATAGCACAGAATTGCCCCAAAGCCTTGTTAAGATGAGTCAAGACCCCTC
CCCCGCTTCCTCCCTTCCTTTCCCCCTTCCTCCCTCCCCCTTCACAAAGGCCTCCCTTGTCACCTTCCCTCCCAC
CCCGTCTCAGCCCTGTGCTCCTGGAGGCCCTGCTCCCAAAACCGCTGGAAGGACTGGGGCACTTTCTGCCACAGT
AGAACACAGACAGGGCTTCAGATCGCCCACGCCTGTTTTCAGCTGTGGGTGGCCATGCAGACACGCGCCCTGGCA
TGTGGGGCCTGGGTGGGCAGGCAGGACCTGGGCCCTCCCACCCATCAGAGCCCACTCAGGACCAGCGTTCGGAGC
TCCCACCTGGACGCATCCCTCACCACGTCCGGATTTCCTTCTTTGGATGGAATGTAACGCGATCTCTATTTAATA
AAGGCAGGCTTTGTTGGT

FIGURE 78

GAGGCGCACGCTCGCTCGTACGGCGGCCGCGGCGGCAGGGCGGGGCCGGAGCAGCGGGCGGCGGCGGAGGCGGCG
CCCGGGAGCGCTCTTCGCTTCCCTCGGGGTCTTGCTCGGACCTCGGCCACCGCCTGGGATCCCCAGGACTCGTGC
GTGCAGC**ATG**GGCGGCGTCGGGGAGCCGGGACCGCGGGAGGGACCCGCGCAGCCGGGGGCGCCGCTGCCCACCTT
CTGCTGGGAGCAGATCCGCGCGCACGACCAGCCCGGCGACAAGTGGCTGGTCATCGAGCGCCGCGTCTACGACAT
CAGCCGCTGGGCACAGCGGCACCCAGGGGGCAGCCGCCTCATCGGCCACCACGGCGCTGAGGACGCCACGGATGC
CTTCCGTGCCTTCCATCAAGATCTCAATTTTGTGCGCAAGTTCCTACAGCCCCTGTTGATTGGAGAGCTGGCTCC
GGAAGAACCCAGCCAGGATGGACCCCTGAATGCGCAGCTGGTCGAGGACTTCCGAGCCCTGCACCAGGCAGCCGA
GGACATGAAGCTGTTTGATGCCAGTCCCACCTTCTTTGCTTTCCTACTGGGCCACATCCTGGCCATGGAGGTGCT
GGCCTGGCTCCTTATCTACCTCCTGGGTCCTGGCTGGGTGCCCAGTGCCCTGGCCGCCTTCATCCTGGCCATCTC
TCAGGCTCAGTCCTGGTGTCTGCAGCATGACCTGGGCCATGCCTCCATCTTCAAGAAGTCCTGGTGGAACCACGT
GGCCCAGAAGTTCGTGATGGGGCAGCTAAAGGGCTTCTCCGCCCACTGGTGGAACTTCCGCCACTTCCAGCACCA
CGCCAAGCCCAACATCTTCCACAAAGACCCAGACGTGACGGTGGCGCCCGTCTTCCTCCTGGGGGAGTCATCCGT
CGAGTATGGCAAGAAGAAACGCAGATACCTACCCTACAACCAGCAGCACCTGTACTTCTTCCTGATCGGCCCGCC
GCTGCTCACCCTGGTGAACTTTGAAGTGGAAAATCTGGCGTACATGCTGGTGTGCATGCAGTGGGCGGATTTGCT
CTGGGCCGCCAGCTTCTATGCCCGCTTCTTCTTATCCTACCTCCCCTTCTACGGCGTCCCTGGGGTGCTGCTCTT
CTTTGTTGCTGTCAGGGTCCTGGAAAGCCACTGGTTCGTGTGGATCACACAGATGAACCACATCCCCAAGGAGAT
CGGCCACGAGAAGCACCGGGACTGGGTCAGCTCTCAGCTGGCAGCCACCTGCAACGTGGAGCCCTCACTTTTCAC
CAACTGGTTCAGCGGGCACCTCAACTTCCAGATCGAGCACCACCTCTTCCCCAGGATGCCGAGACACAACTACAG
CCGGGTGGCCCCGCTGGTCAAGTCGCTGTGTGCCAAGCACGGCCTCAGCTACGAAGTGAAGCCCTTCCTCACCGC
GCTGGTGGACATCGTCAGGTCCCTGAAGAAGTCTGGTGACATCTGGCTGGACGCCTACCTCCATCAG**TGA**AGGCA
ACACCCAGGCGGGCAGAGAAGGGCTCAGGGCACCAGCAACCAAGCCAGCCCCCGGCGGGATCGATACCCCCACCC
CTCCACTGGCCAGCCTGGGGGTGCCCTGCCTGCCCTCCTGGTACTGTTGTCTTCCCCTCGGCCCCCTCACATGTG
TATTCAGCAGCCCTATGGCCTTGGCTCTGGGCCTGATGGGACAGGGGTAGAGGGAAGGTGAGCATAGCACATTTT
CCTAGAGCGAGAATTGGGGGAAAGCTGTTATTTTTATATTAAAATACATTCAGATGT

FIGURE 79

AGGGGGCGCGGTGGGAGGAGTAGGAGAAGACAAAAGCCGAAAGCGAAGAGGGCCCGGGCTGCACACACCGGCTGG
GAGGCAGCCGTCTGTGCAGCGAGCAGCCGGCGCGGGGAGGCCGCAGTGCACGGGGCGTCACAGTCGGCAGGCAGC
ATGGGGAAGGGAGGGAACCAGGGCGAGGGGGCCGCCGAGCGCGAGGTGTCGGTGCCCACCTTCAGCTGGGAGGAG
ATTCAGAAGCATAACCTGCGCACCGACAGGTGGCTGGTCATTGACCGCAAGGTTTACAACATCACCAAATGGTCC
ATCCAGCACCCGGGGGGCCAGCGGGTCATCGGGCACTACGCTGGAGAAGATGCAACGGATGCCTTCCGCGCCTTC
CACCCTGACCTGGAATTCGTGGGCAAGTTCTTGAAACCCCTGCTGATTGGTGAACTGGCCCCGGAGGAGCCCAGC
CAGGACCACGGCAAGAACTCAAAGATCACTGAGGACTTCCGGGCCCTGAGGAAGACGGCTGAGGACATGAACCTG
TTCAAGACCAACCACGTGTTCTTCCTCCTCCTCCTGGCCCACATCATCGCCCTGGAGAGCATTGCATGGTTCACT
GTCTTTTACTTTGGCAATGGCTGGATTCCTACCCTCATCACGGCCTTTGTCCTTGCTACCTCTCAGGCCCAAGCT
GGATGGCTGCAACATGATTATGGCCACCTGTCTGTCTACAGAAAACCCAAGTGGAACCACCTTGTCCACAAATTC
GTCATTGGCCACTTAAAGGGTGCCTCTGCCAACTGGTGGAATCATCGCCACTTCCAGCACCACGCCAAGCCTAAC
ATCTTCCACAAGGATCCCGATGTGAACATGCTGCACGTGTTTGTTCTGGGCGAATGGCAGCCCATCGAGTACGGC
AAGAAGAAGCTGAAATACCTGCCCTACAATCACCAGCACGAATACTTCTTCCTGATTGGGCCGCCGCTGCTCATC
CCCATGTATTTCCAGTACCAGATCATCATGACCATGATCGTCCATAAGAACTGGGTGGACCTGGCCTGGGCCGTC
AGCTACTACATCCGGTTCTTCATCACCTACATCCCTTTCTACGGCATCCTGGGAGCCCTCCTTTTCCTCAACTTC
ATCAGGTTCCTGGAGAGCCACTGGTTTGTGTGGGTCACACAGATGAATCACATCGTCATGGAGATTGACCAGGAG
GCCTACCGTGACTGGTTCAGTAGCCAGCTGACAGCCACCTGCAACGTGGAGCAGTCCTTCTTCAACGACTGGTTC
AGTGGACACCTTAACTTCCAGATTGAGCACCACCTCTTCCCCACCATGCCCCGGCACAACTTACACAAGATCGCC
CCGCTGGTGAAGTCTCTATGTGCCAAGCATGGCATTGAATACCAGGAGAAGCCGCTACTGAGGGCCCTGCTGGAC
ATCATCAGGTCCCTGAAGAAGTCTGGGAAGCTGTGGCTGGACGCCTACCTTCACAAATGAAGCCACAGCCCCCGG
GACACCGTGGGGAAGGGGTGCAGGTGGGGTGATGGCCAGAGGAATGATGGGCTTTTGTTCTGAGGGGTGTCCGAG
AGGCTGGTGTATGCACTGCTCACGGACCCCATGTTGGATCTTTCTCCCTTTCTCCTCTCCTTTTTCTCTTCACAT
CTCCCCCATAGCACCCTGCCCTCATGGGACCTGCCCTCCCTCAGCCGTCAGCCATCAGCCATGGCCCTCCCAGTG
CCTCCTAGCCCCTTCTTCCAAGGAGCAGAGAGGTGGCCACCGGGGGTGGCTCTGTCCTACCTCCACTCTCTGCCC
CTAAAGATGGGAGGAGACCAGCGGTCCATGGGTCTGGCCTGTGAGTCTCCCCTTGCAGCCTGGTCACTAGGCATC
ACCCCCGCTTTGGTTCTTCAGATGCTCTTGGGGTTCATAGGGGCAGGTCCTAGTCGGGCAGGGCCCCTGACCCTC
CCGGCCTGGCTTCACTCTCCCTGACGGCTGCCATTGGTCCACCCTTTCATAGAGAGGCCTGCTTTGTTACAAAGC
TCGGGTCTCCCTCCTGCAGCTCGGTTAAGTACCCGAGGCCTCTCTTAAGATGTCCAGGGCCCCAGGCCCGCGGGC
ACAGCCAGCCCAAACCTTGGGCCCTGGAAGAGTCCTCCACCCCATCACTAGAGTGCTCTGACCCTGGGCTTTCAC
GGGCCCCATTCCACCGCCTCCCCAACTTGAGCCTGTGACCTTGGGACCAAAGGGGGAGTCCCTCGTCTCTTGTGA
CTCAGCAGAGGCAGTGGCCACGTTCAGGGAGGGGCCGGCTGGCCTGGAGGCTCAGCCCACCCTCCAGCTTTTCCT
CAGGGTGTCCTGAGGTCCAAGATTCTGGAGCAATCTGACCCTTCTCCAAAGGCTCTGTTATCAGCTGGGCAGTGC
CAGCCAATCCCTGGCCATTTGGCCCCAGGGGACGTGGGCCCTGCAGGCTGCAGGAGGGCACTGGAGCTGGGAGGT
CTCGTCCCAGCCCTCCCCATCTCGGGGCTGCTGTGTGGACGGCGCTGCCTCAGGCACTCTCCTGTCTGAACCTGC
CCTTACTGTGTTTAACCTGTTGCTCCAGGATGCATTCTGATAGGAGGGGGCGGCAGGGCTGGGCCTTGTGACAAT
CTGCCTTTCACCACATGGCCTTGCCTCGGTGGCCCTGACTGTCAGGGAGGGCCAGGGAGGCAGAGCGGGAGGGAG
TCTCAGGAGGAGGCTGCCCTGAGGGGCTGGGGAGGGGGTACCTCATGAGGACCAGGGTGGAGCTGAGAAGAGGAG
GAGGTGGGGGCTGGAGGTGCTGGTAGCTGAGGGGACGGGCAAGTGAGAGGGGAGGGAGGGAAGTCCTGGGAGGAT
CCTGAGCTGCTGTTGCAGTCTAACCCACTAATCAGTTCTTAGATTCAGGGGAAGGGCAGGCACCAACAACTCAGA
ATGGGGGCTTTCGGGGAGGGCGCCTAGTCCCCCCAGCTCTAAGCAGCCAGGAGGGACCTGCATCTAAGCATCTGG
GTTGCCATGGCAATGGCATGCCCCCCAGCTACTGTATGCCCCCGACCCCCGCAGAGGCAGAATGAACCCATAGGG
AGCTGATCGTAATGTTTATCATGTTACTTCCCCACCCCTACATTTTTTGAAATAAAATAAGGAATTTTATTCTC

FIGURE 80A

TCCACTCCTGGAGCCCGCGGACCCCGAGCACGCGCCTGACAGCCCCTGCTGGCCCGGCGCGCGGCGTCGCCAGGC
CAGCTATGGCCCCCGACCCGGTGGCCGCCGAGACCGCGGCTCAGGGACCTACCCCGCGCTACTTCACCTGGGACG
AGGTGGCCCAGCGCTCAGGGTGCGAGGAGCGGTGGCTAGTGATCGACCGTAAGGTGTACAACATCAGCGAGTTCA
CCCGCCGGCATCCAGGGGGCTCCCGGGTCATCAGCCACTACGCCGGGCAGGATGCCACGGATCCCTTTGTGGCCT
TCCACATCAACAAGGGCCTTGTGAAGAAGTATATGAACTCTCTCCTGATTGGAGAACTGTCTCCAGAGCAGCCCA
GCTTTGAGCCCACCAAGAATAAAGAGCTGACAGATGAGTTCCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGC
TCATGAAGGCCAACCATGTCTTCTTCCTGCTGTACCTGCTGCACATCTTGCTGCTGGATGGTGCAGCCTGGCTCA
CCCTTTGGGTCTTTGGGACGTCCTTTTTGCCCTTCCTCCTCTGTGCGGTGCTGCTCAGTGCAGTTCAGGCCCAGG
CTGGCTGGCTGCAGCATGACTTTGGGCACCTGTCGGTCTTCAGCACCTCAAAGTGGAACCATCTGCTACATCATT
TTGTGATTGGCCACCTGAAGGGGGCCCCCGCCAGTTGGTGGAACCACATGCACTTCCAGCACCATGCCAAGCCCA
ACTGCTTCCGCAAAGACCCAGACATCAACATGCATCCCTTCTTCTTTGCCTTGGGGAAGATCCTCTCTGTGGAGC
TTGGGAAACAGAAGAAAAAATATATGCCGTACAACCACCAGCACAAATACTTCTTCCTAATTGGGCCCCCAGCCT
TGCTGCCTCTCTACTTCCAGTGGTATATTTTCTATTTTGTTATCCAGCGAAAGAAGTGGGTGGACTTGGCCTGGA
TGATTACCTTCTACGTCCGCTTCTTCCTCACTTATGTGCCACTATTGGGGCTGAAAGCCTTCCTGGGCCTTTTCT
TCATAGTCAGGTTCCTGGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATATTCCCATGCACATTGATC
ATGACCGGAACATGGACTGGGTTTCCACCCAGCTCCAGGCCACATGCAATGTCCACAAGTCTGCCTTCAATGACT
GGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATCTTTTTCCCACGATGCCTCGACACAATTACCACAAAG
TGGCTCCCCTGGTGCAGTCCTTGTGTGCCAAGCATGGCATAGAGTACCAGTCCAAGCCCCTGCTGTCAGCCTTCG
CCGACATCATCCACTCACTAAAGGAGTCAGGGCAGCTCTGGCTAGATGCCTATCTTCACCAATAACAACAGCCAC
CCTGCCCAGTCTGGAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCAGAGGGGAGCTTGAGGGACAATGCCACTAT
AGTTTAATACTCAGAGGGGGTTGGGTTTGGGGACATAAAGCCTCTGACTCAAACTCCTCCCTTTTATCTTCTAGC
CACAGTTCTAAGACCCAAAGTGGGGGGTGGACACAGAAGTCCCTAGGAGGGAAGGAGCTGTTGGGGCAGGGGTGT
AAATTATTTCCTTTTTCTAGTTTGGCACATGCAGGTAGTTGGTGAACAGAGAGAACCAGGAGGGTAACAGAAGAG
GAGGGACCTACTGAACCCAGAGTCAGGAAGAGATTTAACACTAAAATTCCACTCATGCCGGGCGTGGTGGCACGC
GCCTGTAATCCCAGCTACCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGC
TGAGATCACGCCATTGTACTCCAGCCTGGGCGACAGAGCAAGACTCCATTTCAAAAAAAAAAAAAAAAATCCACTC
ATATAAAAGGTGAGCTCAGCTCACTGGTCCATTTCTCAGTGGCTTCTCCATCCTCATTTGCAAACCTCAGAGGGA
TAAGGCAGTTGAACCTGATGAGCAAGAATTATAACAGCAAGGAAACATTAATGCTTAGAATTCTGAGATCCAGCA
CAACTCAGTCTGTGGGAGCTCAGCTCGCTGCCCAGGGATAGGTATGACCTATGTCTGCCTTAGGCTGCTGGGAGA
TGCCATTCTCCAGTTTCAGAAGCAGGCAGGGCAAAGGTCAAGACTGTGGTATTGGGGTCTTTTGGCTCTGAAGGA
TCCTGGAACCACTGATTTTGGTTTATTCCCTCCAGGGTCTAAAGAGAACAAGAGGTGCTAGCTCTTACCAAAACA
GATGGTAGAGAGAGTTGCTGGCTATTTAAAAAGCTCTTTCATCTTTTAATTCACCTCTTCTTTTCACCTCTTTAA
CCACTCCTCAGGAACAGAACACTTCTAGGACTGGGGGTCTTTTAGCTCCATAAGCAAGTGAGCAGATGGGACAAG
TTAGTCTTTTCTCCCTAGAAACAAAGGGGATGCCCAGTGGTTTCCCTTTGCTTCCCAACCTAAAATTTCAAGTTT
AATAAAATAGCAATTAGCAGAAGTGACCAAATTGGGAGATAATTATCAGTCATGAGGAAAGACACAGATTTCGGT
CATAAAGAATGTAAGGGCTATAAGTAGAAACTTTCTATAACCTAAATGATGTTATAGAATTATTTTTGAGCAGGA
GCAGAAAGATTAAATATGATCACTTCATACTTCTAAATCAGAAATAGGAAGATTAAAACCACAGAACAGTTTGTG
ATTTCTATTGCTGTAGCTAGGTATCTTACTCTGTCCACTCTTGTTCAAGTATCTAACTCTTCTGGAAACCAAATA
GGCTTTAGAAGAGATTATCCTATATTCCTATCAGTATAATACTAAAATGTAACTTTTTAATCATCTGGTTTTTAA
AAGATAAACAGTTTAGCCCATCTCTCCAGAGAGCAAACATAGGAATATGACTCAGGAGCCTCCTAGGGCTTATCA
TCAGCCCTCACACCCGCTTCCCCCTCCAACCCACAGCCTTTGCTTCCAGGTGGCAGGATTACTACTTTGCCTCTT
CAGCAGCATCTACTCTAGGCATATTGATCATTTTAGACACTGGGAGAAGAGAACCTCAAACTAGGAGGAAAAGAC
AGAGCCTCCACTTAGTTTTGGGAGGGGATGGCAGACAGTCAAGGAGATGAGCGTCCTAAGGCATGTTGGGATAGG
GTCAGATGCACCACCCATGGAGAGGTTTGTCAACACAAAGACATGGAAGGTTAGAGGTTTGTCAACAAAAAGACA
TGGAAGGTTAGGTTTGTCAACACAAAGACATGGAAGATTAGAGGTTTGTCAACACAAAGACACAGGAAGAATGGG
CTGCAGAAGATTTAGATGTTTTCCATTTGGGCACATTTTACTTAGCTGGAGAACTAGGTTTAAAACAGCCTGGGT
AGGAAAATTAGAAGCAAGCTGGATGCAGTGGCTCATGCCTGTAATCCCAACACTTTTGGGAGGTCCAGGCAGGAG
GATCACTTGGGCCCAGGAGGTCAAGCCTGCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTGGGGTGATAGA

FIGURE 80B

ACAAGACCCTGTCTCAAAAAAAAAAAAAAACAACAAAAACTTAGAATTGAGGAGTTGTACCTCCATTGGCTTCCTC
ACTCCAAAATAGGTGCTGATCCTTCCTATTCCTATTCTTTGCCACCTTTTGGGTGTGGTGTCACCAGCCTGTTTA
GCCAAGTAGCTTTGGGCATAGGCTGCCCAATCTGAGCAAACACCAGTGAGGCTCTATTGAGCCAAGACCAAGTCC
TCAAAGCACCTGAACCACTGTGGCCTTCTCAGCCTACAGCAGTGTGGTCTCTTACATGGCCACAAAGGGACACAC
AGTGACAAAAGGCTCGGAATGTTACAATGGTAAAATGAGTGATCTCAAATCCACTGACAGATATAAAATAGGCTT
AGAGAGGAAAAGCTGCCTCTGGTCAAGTAGATCATGGCAGCATGAATTCCAACTCACTTTTTTACAACTCCAACT
TCTATGTTTATCTTTGTTACTTTCACTTTTTTACAACCTGGCCAGAGGCATTTTTTAAATCAGGCCCAATATCAG
TATTCTTTTTGTGTGTGCCAATTTTGTTATCACATCCCTATGAAGTTGAAAAATAAAGTTAATTTTGACC

FIGURE 81

AGTCCTGCGATTTCGGGTGTAGAGGGAGCAGGGGCCTGCGGGGACCTGGTGTGGGTGGAGTGGGGACAAGCGGTG
GAGAAGGGTACGCCAGGGTCGCTGAGAGACTCTGTTCTCCCTGGAGGGACTGGTTGCCATGAGAGCAGCCGTCTG
AGGGGACGCAGCCTGCACTACGCGCCCCAAGAGGCTGTGCGTGGCGAGCAGGTCACGTGACGGGAGCGCGGGCTT
TGGAAGGCGGCTGAACGTCAGGCCACCCGCCGCTAAGCTGAGAAGGGAGAGCGAGCTTAGGACCGCCTGCCCGGG
GCAACCCCGAACCAAGCTTTAGCCGCCGAGGCCGCGTGTCCCAAAGGCCAGTCATCCCTCCTCTGTGTTGCC**ATG**

GGAATTCAAGGCCTGGCCAAACTAATTGCTGATGTGGCCCCCAGTGCCATCCGGGAGAATGACATCAAGAGCTAC
TTTGGCCGTAAGGTGGCCATTGATGCCTCTATGAGCATTTATCAGTTCCTGATTGCTGTTCGCCAGGGTGGGGAT
GTGCTGCAGAATGAGGAGGGTGAGACCACCAGCCACCTGATGGGCATGTTCTACCGCACCATTCGCATGATGGAG
AACGGCATCAAGCCCGTGTATGTCTTTGATGGCAAGCCGCCACAGCTCAAGTCAGGCGAGCTGGCCAAACGCAGT
GAGCGGCGGGCTGAGGCAGAGAAGCAGCTGCAGCAGGCTCAGGCTGCTGGGGCCGAGCAGGAGGTGGAAAAATTC
ACTAAGCGGCTGGTGAAGGTCACTAAGCAGCACAATGATGAGTGCAAACATCTGCTGAGCCTCATGGGCATCCCT
TATCTTGATGCACCCAGTGAGGCAGAGGCCAGCTGTGCTGCCCTGGTGAAGGCTGGCAAAGTCTATGCTGCGGCT
ACCGAGGACATGGACTGCCTCACCTTCGGCAGCCCTGTGCTAATGCGACACCTGACTGCCAGTGAAGCCAAAAAG
CTGCCAATCCAGGAATTCCACCTGAGCCGGATTCTGCAGGAGCTGGGCCTGAACCAGGAACAGTTTGTGGATCTG
TGCATCCTGCTAGGCAGTGACTACTGTGAGAGTATCCGGGGTATTGGGCCCAAGCGGGCTGTGGACCTCATCCAG
AAGCACAAGAGCATCGAGGAGATCGTGCGGCGACTTGACCCCAACAAGTACCCTGTGCCAGAAAATTGGCTCCAC
AAGGAGGCTCACCAGCTCTTCTTGGAACCTGAGGTGCTGGACCCAGAGTCTGTGGAGCTGAAGTGGAGCGAGCCA
AATGAAGAAGAGCTGATCAAGTTCATGTGTGGTGAAAAGCAGTTCTCTGAGGAGCGAATCCGCAGTGGGGTCAAG
AGGCTGAGTAAGAGCCGCCAAGGCAGCACCCAGGGCCGCCTGGATGATTTCTTCAAGGTGACCGGCTCACTCTCT
TCAGCTAAGCGCAAGGAGCCAGAACCCAAGGGATCCACTAAGAAGAAGGCAAAGACTGGGGCAGCAGGGAAGTTT
AAAAGGGGAAAA**TAA**ATGTGTTTCCCCATTATACCTCCTTCACCCCAGAATATTTGCCGTCTTGTACCCTTAAGA
GCTACAGCTAGAGAAACCTTCACGGGGTGGAGAGAGGATTCTAAGGCTTTTCTAGCGTGACCCTTTTCAGTAGTG
CTAGTCCCTTTTTTACTTGATCTTAATGGCAAGAAGGCCACAGAGGTACTTTTCCTTTTTTAGCTCAGGAAAATA
TGTCAGGCTCAAACCACTTCTCAGGCAGTTTAATGGACACTAAGTCCATTGTTACATGAAAGTGATAGATAGCAA
CAAGTTTTGGAGAAGAGAGAGGGAGATAAAAGGGGGAGACAAAAGATGTACAGAAATGATTTCCTGGCTGGCCAA
CTGGTGGCCAGTGGGAGGTGATGGTGGACCTAGACTGTGCTTTTCTGTCTTGTTCAGCCTTGACCCACCTTGAGA
GAGAGCCACCAGGAAGGCGCATCTTAGCAGATGGGAGGAACTGCTGAGAGAAGATGGGCAGAAAGCTGGAGCCCC
TGGAGTTGGCTGTGTCTGTGTTTGTGACTGATTACTGGCTGTGTCTTGGGTGGGCAGAAACTCGAACTTGCTATG
TAATTTGTGTCTAGTTATTCAGAGGAGTAAGATGGTGATGTTCACCTGGCAATCAGCTGAGTTGAGACTTTGGAA
TAAGACACTGGTTTTCATGCGCTGTTTTTGTTTTAAAGTTATGAAGAAAAAAGTCAATAAAATTCTAAAAGT

FIGURE 82

CCTGCCGACGTGTTCTTCCGGTGGCGGAGCGGCGGATTAGCCTTCGCGGGGCAAAATGGAGCTCGAGGCCATGAG
CAGATATACCAGCCCAGTGAACCCAGCTGTCTTCCCCCATCTGACCGTGGTGCTTTTGGCCATTGGCATGTTCTT
CACCGCCTGGTTCTTCGTTTACGAGGTCACCTCTACCAAGTACACTCGTGATATCTATAAAGAGCTCCTCATCTC
CTTAGTGGCCTCACTCTTCATGGGCTTTGGAGTCCTCTTCCTGCTGCTCTGGGTTGGCATCTACGTGTGAGCACC
CAAGGGTAACAACCAGATGGCTTCACTGAAACCTGCTTTTGTAAATTACTTTTTTTTACTGTTGCTGGAAGTGTC
CCACCTGCTGCTCATAATAAATGCAGATGTATA

FIGURE 83A

CACAGGGCCTGCAGAGAGGGGACCCACCGGGCAGGATGCACTGGCTTCCAGCAGGCCACGACATCAACGGTGCCC
TGGAGCCCTCCAACATAGACACCAGCATCCTGGAGGAGTACATCAGCAAGGAGGATGCCTCCGACCTCTGCTTCC
CTGACATCTCTGCTCCAGCCAGCTCGGCCTCCTACTCCCACGGGCAGCCTGCGATGCCTGGCTCCAGCGGGGTCC
ACCACCTGAGCCCCCCTGGGGGTGGACCCTCCCCGGGGCGCCATGGTCCCCTCCCACCCCCGGGCTACGGCACCC
CGCTGAACTGCAACAACAACAACGGCATGGGCGCTGCCCCCAAGCCCTTCCCGGGGGGCACCGGGCCCCCCATCA
AGGCTGAGCCCAAGGCTCCCTATGCCCCAGGCACACTGCCGGACTCTCCCCCAGACTCGGGCTCCGAGGCCTACT
CCCCCCAGCAGGTGAATGAGCCCCACCTCCTGCGCACGATAACCCCTGAGACACTGTGCCACGTGGGAGTGCCCT
CCCGCCTGGAGCATCCGCCCCCACCTCCAGCCCACTTGCCAGGCCCCCCGCCACCCCCACCACCCCCACCTCACT
ACCCTGTCCTGCAGCGGGATCTGTACATGAAGGCCGAGCCCCCGATCCCCCACTACGCTGCCATGGGGCAGGGGC
TGGTGCCCACTGATCTTCACCACACCCAGCAGTCCCAGATGCTGCACCAGCTCCTGCAGCAGCACGGAGCTGAGC
TCCCTACACACCCCTCCAAGAAGAGGAAGCACTCTGAATCCCCCCCGAGCACCCTCAATGCCCAGATGCTGAATG
GAATGATCAAACAGGAGCCTGGGACCGTGACAGCCCTGCCTCTGCACCCCACTCGAGCCCCATCGCCACCCTGGC
CTCCCCAGGGTCCGCTCTCCCCGGGCCCTGGTTCCTTGCCTCTCAGCATTGCCCGTGTCCAGACACCGCCTTGGC
ACCCGCCAGGTGCCCCCTCCCCAGGCCTCCTGCAGGACAGTGACAGCCTCAGTGGCTCCTACCTGGACCCCAACT
ACCAGTCCATCAAGTGGCAGCCTCATCAGCAGAACAAGTGGGCGACCCTGTACGATGCTAACTACAAGGAGCTGC
CCATGCTCACCTACCGCGTGGATGCGGACAAGGGCTTCAACTTTTCGGTGGGCGACGACGCCTTTGTGTGCCAGA
AGAAGAACCACTTCCAGGTGACAGTGTACATCGGCATGCTGGGCGAGCCCAAGTACGTCAAGACGCCCGAGGGCC
TCAAGCCCCTCGACTGCTTCTATCTGAAGCTGCACGGAGTGAAGCTGGAGGCCCTGAACCAGTCCATTAACATCG
AGCAGTCCCAGTCAGACCGGAGCAAGCGGCCCTTCAACCCGGTCACGGTCAATCTGCCCCCTGAGCAGGTCACGA
AGGTGACTGTGGGGCGGCTGCACTTCAGCGAGACCACCGCTAACAACATGCGTAAGAAGGGCAAGCCCAACCCGG
ACCAGAGGTACTTCATGCTGGTGGTGGCCCTCCAGGCTCATGCACAGAACCAGAACTACACGCTGGCCGCCCAGA
TCTCAGAGCGCATCATTGTGCGGGCCTCCAACCCAGGCCAGTTCGAGAGCGACAGCGATGTGTTGTGGCAGCGGG
CACAGGTGCCCGACACCGTCTTCCACCACGGCCGCGTGGGCATCAACACAGACCGGCCGGATGAGGCGCTGGTTG
TGCACGGGAATGTCAAGGTCATGGGCTCGCTTATGCACCCCTCCGACCTGCGCGCCAAGGAACACGTGCAGGAGG
TGGACACCACCGAGCAATTGAAGAGGATCTCGCGCATGCGGCTGGTGCACTACAGATACAAGCCCGAGTTCGCCG
CCAGCGCGGGCATCGAGGCCACCGCGCCAGAGACAGGTGTCATCGCTCAGGAGGTGAAGGAGATCTTGCCTGAGG
CTGTGAAAGACACCGGAGACATGGTCTTTGCCAATGGGAAAACCATAGAGAACTTCCTGGTGGTGAACAAGGAGC
GCATCTTCATGGAGAACGTAGGGGCCGTGAAGGAGCTGTGCAAGCTGACAGACAACCTGGAGACGCGCATTGATG
AGCTGGAGCGCTGGAGCCACAAGCTGGCCAAGCTGCGGCGGCTCGACAGCCTCAAGTCCACCGGCAGCTCGGGCG
CCTTCAGCCATGCAGGGAGCCAGTTCAGTCGGGCGGGCAGCGTCCCCCACAAGAAGAGGCCCCCCAAGGTGGCCA
GCAAGTCATCGTCCGTGGTTCCGGACCAGGCCTGCATCAGCCAGCGCTTCCTGCAGGGAACCATCATTGCCCTGG
TGGTGGTCATGGCCTTCAGCGTGGTGTCCATGTCCACACTGTACGTGCTGAGCCTGCGCACAGAGGAGGACCTGG
TAGACACTGATGGCAGGTCCAGCCAGAGCTTTGGGACCACGCAGCTCCGACAGTCCCCCTTGACCACGGGGCTAC
CAGGCATACAGCCCTCTTTGCTGCTGGTGACCACCAGCCTCACCAGCTCGGCCCCAGGTTCTGCTGTCCGCACCT
TGGACATGTGTTCCAGCCACCCCTGCCCTGTCATCTGCTGTTCCTCACCCACTACCAACCCTACCACTGGTCCTA
GTCTTGGCCCCAGCTTTAACCCTGGCCATGTTCTCAGCCCAAGTCCCAGCCCCAGCACCAACCGCTCAGGCCCCA
GCCAGATGGCCCTTCTGCCAGTCACCAACATCAGAGCCAAGTCCTGGGGTCTTTCAGTCAATGGCATTGGCCACT
CCAAGCATCACAAGAGTCTGGAGCCTCTGGCCAGCCCTGCAGTCCCCTTCCCTGGGGGGCAGGGCAAAGCCAAGA
ACAGTCCCAGCCTTGGTTTCCATGGCCGGGCCCGCCGAGGGGCCCTCCAGTCCAGCGTGGGCCCTGCTGAGCCCA
CCTGGGCCCAGGGCCAGTCAGAGCCAGTGCCCTCCCTGACCTCCATCCAGGTGCTGGAGAATTCGATGTCCATCA
CCTCCCAGTACTGTGCTCCAGGGGATGCCTGCAGGCCTGGGAACTTCACCTACCACATCCCTGTCAGTAGTGGCA
CCCCACTGCACCTCAGCCTGACTCTGCAGATGAACTCCTCCTCCCCCGTGTCTGTGGTGCTGTGCAGCCTGAGGT
CAAAGGAGGAACCATGTGAGGAGGGGAGCCTTCCACAGAGTCTCCACACCCACCAGGACACCCAGGGCACCTCTC
ACCGGTGGCCAATAACCATCCTGTCCTTCCGTGAATTCACCTACCACTTCCGGGTGGCACTGCTGGGTCAGGCCA
ACTGCAGTTCAGAGGCTCTCGCCCAGCCAGCCACAGACTACCACTTCCACTTCTACCGCCTGTGTGACTGAGCTG
CCCTCCTGAGGCAGCACCACACCAGGGACCAGGGGTGCCCAGGCACCCCCCAACACTGGATGCAATGGTGTTACA
CTGGAGCCCGCTGCAGGCCAGCTCTGCTGTTCACTGGCCCTACCCGAGACTGGTGAAACTGGAAGTCTTCACACT
GGAGTTGCTGTTCCAGCTGGTCGCCCCTCACGGCACAGAGGGAACCTGAGAGCCAGAGACTTCTTGGGCCTTCCT

FIGURE 83B

GCCTGCCACCCCCTAGGGGCCAGGACAGGACCAGTTTACCTCTTTCCAGATATGGTGGTTGGAGGGCTGGTTCAG
GTGCCCTGGAGGGAAGGGGAAGCCTGTGGCCCTGATTTGTTCAGAGCCCATTCTCCCTTGCCTCCCCTTTTGAGA
CTGGAGCCAACCCTTTTGGAGAGAGGACCTGCCCACCTTTGAGATCAGCAGGGGGCTCGGATCCAGCCCTAAGAG
ACTTGGGTGGACCCCCATGAGTCAATGGAGGGCAGACGGCTCTCCCCCTTAAAGCTGTTCCCTGGGGGATGGCTT
GGTAGTGGACTTTCTGGGGTTTGCCTGTTACGCCAGACTCGGACTTCTAAGCTTTAAGTGTGGCCCAGGAGGTTT
CTTCTCCCTGGGAGGGCTTGGCTCCCAAGAAGTCCCAGGGCAGCCGAGGCCAGCCCTGCCTGGGTTGGAGAAACT
GACTTTGTGCCTTAAGTCTACTCAGTGCCTGGTGAAGCCACCCTCAGCCCTTCACAGGCCTGAACCAGTAGGGGC
CAGTGGGCCAGGTAAGCCCTAGAGCCTTGAACCAGGAATATCCAGGAAGAGGAAATTCCCTTTGAGCCCCCAGAT
GGTATTGCAGCTTCACTGCCTGCGTTCCTGGGAGCGTCTGGAGCTCACAGTGATCAGTGACCACATCATTCTCTC
TGAGCAGAGGAGCAGGAATCCCTCAAGCAGCAGCCTGGTCTTGGCTGGTGGGCAGATGCAAATAGCTTTTGCTGT
TATTAATGAAGTAATTACTAAATGCACTTAAACCAGGGCAGGAAGGAATGGAAGGATGGAGCTAGAAAGCTCAGA
GTGGGCCAGAGCAGGGGTGTGACACTTGCAAAGACAGGGCTCTGACTCTGATCCCTCCCAGGGAGCCTCCGACAC
CCATCCCACTCCCAACCACCAAGACCCTGGGTTAGGGAAGAAGTTGTATCTTAAGTGCCACCTTCAAGTTTCTTA
GTGGTGCCTGGTGCATTCCGAGGCTACATCCAGGCTCATGGAAGGAGTGTAGTATTCATTTAGCCATGTCTGCCA
TGGGTCCAGAAATGGGAAAGGGAATTGCTGTCCTTGCCCTGTGGTATGCTGCCACCTCTTTGGGAAGCAGGCCTT
GCCCCTGTCCCACCACTCATTCTCAGCTTTGAATGGGAGGCCTTTCTATAGTGGAGGCCTTTCCTTGAAGCCTAT
GAACTGCAGGCCCCCTTTTGCCATTGATCTCAAAGCACTTGTCCTCAGGATAGGGAAGAGCAGGGGGATGCAGGA
ATAGCAGGGATAGCTTGCTCCCAGCCCCCTCCCCAATTTGGTTCCGTTGACATAGGAATTTTACGATTCCCAAAC
CATGCAGGGGCTGAGCCTTCCTTATGATGACTTTGTTCTCCCTCCCACTGGGGGAATCCTCCCTATGCCTTAAAA
CTGCCGAGCCCCACTCCATGTAATAGGATTCCTGGGCTTCCTCAATGGGGGTTCATGTTCTTGGACTGCGGGCCC
TCAGTCCTTAACTGGAAAGTGACCGTCCACTGCCCCATGGAGCCCATCTGGACACAGCACAGCCCCAAAACCGTT
AGCAGCTGGCTCTGTTTCCAAGCCTGGGGAGGGGTTCCTCAGTGCAGGAGTTGGGGACAGGCTGGGGATCCAAGC
TGCTTGAGGGGGTCAACCTTGGACCAAAGTTGCCTTAAGCCTGTGGTAAAAGGGCTTCAGGGAAGGTAAGTGGGC
CACCTGCTGGAAGCTGCCAGCTGCCCGGCTGGCAATGGTGTGAGTGTCTTGGCCCTGTCCCTGCCCTGGGGTCCA
GCAGGTCATCCCTCCCTTCTTCTCTCTCCTTTGGCGTTTGTTCCTGTAGTCACTGGGCTAATCTCCCCCTAGCTT
CAAGCTGTACATAGGGCCTCCCAGTGCAAATCCTCCTGCCCATACCGTGCACCCTTAGAAGCCTGCGTGTGCATA
GAGCGCCCCCTACTTCCCAGTTAACTCCCAGTTCTTCTCCCTGAGCTTGGTATTTGTCATGTGCCAACTCTGACT
CTGAGGTGGGCAGTGAGGGAAGCAGCCCCGGGCCTGCTTGCTTCCTGTCCCCGAAATGTTCGTTTCTTCTGAAGT
AAATATACATATATAAATAAATGTATAAATACTGCTTTGTATCTG

FIGURE 84A

TCAGTATCCGGGGGACCCTGTCCCCCAAGGATGCCCTGACTGACCTGACGGGTGATGCTGAGCGCCTCCCCGTGG
AGGGGCACCACGGCACCTGGCTGGGCCACAAGGGTATGGTCCTCTCAGCTGAGTACATCAAGAAGAAACTGGAGC
AGGAGATGGTCCTGTCCCAGGCCTTTGGGCGAGACCTGGGCCGCGGAACCAAACACTACGGCCTGATTGTGGTGG
GCCACTCCCTGGGCGCGGGCACTGCTGCCATCCTCTCCTTCCTTCTGCGCCCACAGTATCCGACCCTCAAGTGCT
TTGCCTACTCCCCGCCAGGGGGCCTGCTGAGGTGAGGATGCGATGGAGTATTCCAAGGAGTTCGTGACTGCTGTG
GTTCTGGGCAAAGACCTCGTCCCCAGGATTGGCCTCTCTCAGCTGGAAGGCTTCCGCAGACAGCTCCTGGATGTC
CTGCAGCGAAGCACCAAGCCCAAATGGCGGATCATCGTGGGGGCCACCAAATGCATCCCCAAGTCGGAGCTGCCT
GAGGAGGTAGAGGTGACCACCCTGGCCAGCACGCGGCTCTGGACCCACCCCAGCGACCTAACTATAGCCCTCTCA
GCCAGCACTCCACTCTACCCGCCCGGCCGCATCATCCACGTGGTCCACAACCACCCTGCAGAGCAGTGCTGCTGC
TGTGAGCAGGAGGAGCCCACATACTTTGCCATCTGGGGCGACAACAAGGCCTTCAATGAGGTGATCATCTCGCCA
GCCATGCTGCATGAGCACCTGCCCTATGTGGTCATGGAGGGGCTCAACAAGGTGCTGGAGAACTACAACAAGGGG
AAGACCGCTCTGCTCTCTGCAGCCAAGGTCATGGTGAGCCCTACCGAGGTGGACCTGACTCCTGAGCTCATCTTC
CAGCAGCAGCCACTCCCCACGGGGCCGCCCATGCCCACTGGCCTTGCCCTGGAGCTGCCGACTGCAGACCACCGC
AACAGCAGCGTCAGGAGCAAGTCCCAGTCTGAGATGAGCCTGGAGGGCTTCTCGGAGGGGCGGCTGCTGTCGCCA
GTGGTTGCGGCGGCGGCCCGCCAGGACCCGGTGGAGCTGCTGCTGCTGTCTACCCAGGAGCGGCTGGCGGCGGAG
CTGCAGGCCCGGCGGGCACCACTGGCCACCATGGAGAGCCTCTCGGACACTGAGTCCCTGTACAGCTTCGACTCG
CGCCGCTCCTCAGGCTTCCGCAGCATCCGGGGCTCCCCCAGCCTCCACGCTGTGCTGGAGCGTGATGAAGGCCAC
CTCTTCTACATTGACCCTGCCATCCCCGAGGAAAACCCATCCCTGAGCTCGCGCACTGAGCTGCTGGCGGCCGAC
AGCCTGTCCAAGCACTCACAGGACACGCAGCCCCTGGAGGCGGCCCTGGGCAGTGGCGGCGTCACTCCTGAGCGG
CCCCCCAGTGCTGCGGCCAATGACGAGGAGGAAGAGGTTGGCGGTGGGGGTGGCGGGCCGGCCTCCCGCGGGGAG
CTGGCGCTGCACAATGGGCGCCTGGGGGACTCGCCCAGTCCTCAGGTGCTGGAATTCGCCGAGTTCATCGACAGC
CTCTTCAACCTGGACAGCAAGAGCAGCTCCTTCCAAGACCTCTACTGCATGGTGGTGCCCGAGAGCCCCACCAGT
GACTACGCTGAGGGCCCCAAGTCCCCCAGCCAGCAAGAGATCCTGCTCCGTGCCCAGTTCGAGCCCAACCTGGTG
CCCAAGCCCCCACGGCTCTTTGCCGGCTCAGCCGACCCCTCCTCGGGCATCTCACTCTCGCCCTCCTTCCCGCTC
AGCTCCTCGGGTGAGCTCATGGACCTGACGCCCACGGGCCTCAGTAGCCAGGAATGCCTGGCGGCTGACAAGATC
CGGACTTCTACCCCCACTGGCCACGGAGCCAGCCCCGCCAAGCAAGATGAGCTGGTCATCTCAGCACGCTAGCAC
CCCAGTTGCGTGGCCAGCCGGGCCCAGGCAGGAGCAGGTGGCCCTGTGGGCACCTGGTGCCTGCCCCCTGCCGGG
CAGCTTTAAGGACAGACCCCCAGGGGCAGTTTAGCCTCAGGCACAGGCATCGCTGCTGAGCTGGGGGTCCGCATC
CCTACCTCAGCTTAGGACCCCCAGAGCCAAGGTGGCTGGGATCTGGCCCCACAGATGGGGAAAGATGGGGAAGGG
TGTGGAGTGGGGAGGAGCCTGGGCAGCCTGCTGGGTGGGCCACACTCAGCCTGACTGCCCTCCATGGGGGCATTC
TGGCACCCCCTGCTCCAGGACAGGCCATGGGCAAGCTGCCTCCCATCACTGCCTGCTGGCTGCTCTCCCAGGGGC
CAGGTGGAGAGCAGTGCCCCCCGACACATGTATTCTCATCTGTGGTCCAGGCCGGCATCGTCCTGGCCACCCCCC
AGATCTGGTGCCTGCTGGCCGGCCCCCTGGGGTGCCCCTGCCGAGGTGGCCTGCAGTGCTGTACATGTTTACAGA
AGCTGCTGGGCTTGGCTCAGGATGTGTTCTGGGCTTGCAAGCCCCCCGCCCAATCATGTGTTCAGTAGCCGTCCT
CTGAGCAGGGCCCAAGGCAGCCAGGGGCCTGGAGGGGCCAGAGGAGGGTGGGGTCAGGGCCGCCCCTTCTCTGCC
TTGTGCCTCTCATGCTGCCTCCTCTGCCCATGGGTCCTGGGCACCCAGGCCTGCCCTGCCTGCTGGCTACTTCCT
GGCTTACCTTCTACCCCCAAGGATCCTCACCACCCAAAGGGTGGTGGGCACTGCTGTGACCACCCCAGCTGCAGA
GTCAGTGCCCTGGGTGGAAGGAAGGCACTGAGAGCCCCCTTCCTCTGAGGGCCCCACCTCACCCCTTGGTGTCAC
CCCCACCACGCCTAGGCAGCTCTGGGCCCTGGGATCTGGAACCAACACACCCCTGTTCCCCTCAGCTTTCCCTCC
TCGCTGGCCTGGGCACCCTCCTGGGAGCAGGCCTTCCTCCCTCCCACCCCCAATGTCCTGTTGGTAGGAGGTGGG
GCCAAGAGTGGGGTATGGTGGGCCTTGGCTGGAGACCTCTGTCCACTGCCCAGGGAGGGGCCTGGGGCTGGGAGC
AGTCCCGGTTTAGCCTGAGGTCCCCATAGGGCTTCCTCCCCTGCTGGGTTTGGGAAGCAGTTAGGGAGATAGCGA
CCCGGAGTTTCCCCAGAAGCGGGGTGGGAGGGTGTGCATGCTAGTGTTGGCGCGTATGCATGTGCATGAGTGTGC
ACCGTTCCTAAGGAAGGGGCCTCTGGGGCTGCCCACCCTACCTGCCCTGCCTGCCTGCTGCCCCTCCCAGCCTGC
CAAGAAAACGGTAGGGGAGCATGATGGGGCCTTTGAGGCAGGGTCGCAGGGACAAGCTCAGCTTTAGGCACCATC
TGTTCCCATCGCGCCTGCTGCTGTGACCCGTTTTGGAAAACTGGTGTGTACCGAGGCGCTGACTGCACGGCTGAC
CGCCTGCTCGTGCCTTCATTCTGCAGCGGCATGGTCCCTCCCATTCTGGCTCCACCTGCAGCCTCCCTGGGTGGC
CTAGGCTCCCCCGACCAAGAGACCTCCCTCTCATGATCACTGGTACCTGGGGGCCTGAATTCTGGCCCCCGGCTC

FIGURE 84B

CCCACACAGCTGGGACTGGCCTGGATGGCTGTCCTGGGAGCCCCTGCCCACCCTGACAGAGGGAGCTGGGCCTCC
CCTCATCCTCTGTAACTCCCGCCTTCACCAGACTCAAGGACACCCTGGCCCTGCTGAGGCATACAGAGCTTCAGC
CCAGCACAGAAGCAAGACAAAATCAGTGGCTCTTAGAGTTTAGAAAACAAGACAGACTCTCAGATGAAAGATCTG
ACAAGCACCGTGGCCAGTCACAGGGAGAGACTTGATGTCTGGCCTTTTAATTCCTCCTCTGCCAGGGTGGGTCCT
GGGACCTCTAATGTGGGCATGTCGTCCACCCCAGGACGAGCCATCAGGGACAGACCCCCCACCCCCAAGGCTGCA
GCCACACCATGTTTCAGGCTTGGGGCTGGGGCAGGCTTGGGCTCAATCCTGGGCACCCAGGGGCAGCCCACCCCT
AACCTGGCTCCTACCCACCTCGCCCTTGAAGGATGGGCCTGCTGCACGTCTCCCTCCTCCACCCCATACCACACT
GGGGGGTCTGAGCCACCCCCCTCAGCCCCGTTCGGCTCAGACCGACCCCCACTCCATCCCCAGACCTGCAGCACA
AGTGCGCGGGCCTGTCCTCCCAGGGGCCTGGGCGACTCCATATGCAATCAGTAGCGAGCAGCCGGGCCCCACAGA
CCCTCATGCACTCTCTTACGTGCCATTCTCCCCAGACTTTTTTTGTACTTAATGTATGAAAGATCCAAACTAATA
TTGCTGTAAAAAGGAGAGACAAATTAATATAGCTTATTCTATAAATATATCTGTATATAAAGGTTTCTGTATATT
GTATAGAGCTGTGTATAAACTGGATGTAGAAGCAC

FIGURE 85

ATTGCTGGGGCTGCAGCGCTGCCTCCGAGACCGCGAGGTGGGTGGATCGGGTCTTCCTGGAAGGGTGCGATAAGG
CCGGGCGAGGTGCCTGGGATGCTTCTCCCCTTCCGCGAGGAAGAGATCTAATTGGGTAGGGCGGGTGTAGACTAG
CCTGCCGAGCCGCCCGCTGGCACCTGCAGCCTCCTGGGCGCCCGCCGGGCCCCGGCGAGAAAGTTGTTAAAGGGA
GCGAGGTGGTTGTTCCTGGGGTGCTTGGCGCGCCCTCTCACGCCCTGCCCAACAGAAGCCGCAGTCCCGTGGGGT
CTGGAGACGCAGTTTCCTGTTAATGACAATAAATCCCTGCTCCCCCTGCCTCAGACATCTACGCAGCGAAATCGA
GCCTGGCCTTGAGGGTCCACACCGCGAGGGAAGATGCGTGCGCCCATTCCAGAGCCTAAGCCTGGAGACCTGATT
GAGATTTTTCGCCCTTTCTACAGACACTGGGCCATCTATGTTGGCGATGGATATGTGGTTCATCTGGCCCCTCCA
AGTGAGGTCGCAGGAGCTGGTGCAGCCAGTGTCATGTCCGCCCTGACTGACAAGGCCATCGTGAAGAAGGAATTG
CTGTATGATGTGGCCGGGAGTGACAAGTACCAGGTCAACAACAAACATGATGACAAGTACTCGCCGCTGCCCTGC
AGCAAAATCATCCAGCGGGCGGAGGAGCTGGTGGGGCAGGAGGTGCTCTACAAGCTGACCAGTGAGAACTGCGAG
CACTTTGTGAATGAGCTGCGCTATGGAGTCGCCCGCAGTGACCAGGTCAGAGATGTCATCATCGCTGCAAGCGTT
GCAGGAATGGGCTTGGCAGCCATGAGCCTTATTGGAGTCATGTTCTCAAGAAACAAGCGACAAAAGCAATAACTG
AAAAAGACTGTCCTGTCAGCGATGACTTTATACATCAAGGGGGTCTTGTTTTGCTAGAGAGTTTGGGGTTTGGTT
TGTGGATTTCATTGTGATTTATAATAAGGCTTATTTTCACAGAATAAAATAAAGCAAAACGAGGGAGGATTTTAT
TGGGGGAAGTGCAGC

FIGURE 86

AGTTAAACACCAAAGCTGTCTCTCACACTGGTGGTTCCAGGATAAAGCCTCGGCCTGGGGCCTGGTCTGCACGTT
AGGCGCCGGCCGCAGCTCGCAGGAGGACCCGAGCCAGCCCGCCCCTTCCCGCACAGCCTGCTGGGAGTTGTAGTT
CAGTCGTCGGAGAACCACGCCAAGCCCCGCCCCAGATGAGTGCGCAGTATGAGGACCGCTGGCCGGGACCCAGTG
AGCGCGGGACTACAATTCCCAAAGGACGGTAGCACTCAGCGCCCCGCCAACAGAGATGATGCCATGGAGAGCAGC
AAGCCTGGTCCAGTGCAGGTTGTTTTGGTTCAGAAAGATCAACATTCCTTTGAGCTAGATGAGAAAGCCTTGGCC
AGCATCCTCTTGCAGGACCACATCCGAGATCTTGATGTGGTGGTGGTTTCAGTGGCTGGTGCCTTCCGAAAGGGC
AAGTCCTTCATTCTGGATTTTATGCTACGATACTTATATTCTCAGAAGGAAAGTGGCCATTCAAATTGGTTGGGT
GACCCAGAAGAACCGTTAACAGGATTTTCCTGGAGAGGGGGATCTGATCCAGAAACCACTGGGATTCAAATCTGG
AGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGGAAGAAGGTTGCAGTTGTTCTGATGGATACCCAGGGGGCATTT
GACAGCCAGTCAACTGTGAAAGACTGTGCTACCATCTTTGCTCTAAGCACTATGACTAGTTCTGTTCAGATTTAT
AATTTATCTCAGAACATTCAAGAAGATGATCTTCAACAGCTGCAGCTCTTCACAGAATACGGTCGTCTGGCAATG
GATGAAATTTTCCAAAAGCCTTTCCAGACACTGATGTTTTTGGTTAGAGATTGGAGTTTCCCTTATGAATATAGC
TATGGACTCCAAGGAGGAATGGCATTTTTGGATAAGCGTTTACAGGTGAAGGAACATCAACATGAAGAAATTCAG
AATGTTCGAAATCACATTCACTCATGTTTCTCCGATGTCACCTGCTTTCTCTTACCACATCCAGGACTCCAGGTG
GCCACAAGCCCTGACTTTGATGGGAAATTAAAAGATATTGCTGGTGAATTCAAAGAGCAGTTACAGGCACTGATA
CCGTATGTATTAAACCCATCTAAGTTAATGGAAAAGGAGATCAATGGCTCAAAGGTCACCTGTCGGGGACTACTG
GAGTATTTTAAGGCATATATTAAAATTTATCAAGGAGAAGATCTGCCTCACCCCAAGTCCATGCTTCAGGCCACT
GCTGAAGCCAACAACTTAGCAGCTGCAGCCTCTGCCAAGGACATTTATTATAACAACATGGAAGAGGTTTGTGGG
GGAGAGAAACCTTATTTGTCTCCAGACATTCTAGAGGAGAAGCACTGTGAATTCAAACAACTTGCTCTGGACCAT
TTTAAGAAGACCAAGAAGATGGGTGGGAAGGATTTCAGCTTTCGTTACCAGCAGGAGCTGGAGGAGGAAATCAAG
GAATTATATGAGAACTTCTGCAAGCACAATGGTAGCAAGAACGTCTTCAGCACCTTCCGAACCCCTGCAGTGCTG
TTCACGGGCATTGTAGCTTTGTACATAGCCTCAGGCCTCACTGGCTTCATAGGTCTTGAGGTTGTAGCCCAGTTG
TTCAACTGTATGGTTGGACTACTGTTAATAGCACTCCTCACCTGGGGCTACATCAGGTATTCTGGTCAATATCGT
GAGCTGGGCGGAGCTATTGATTTTGGTGCCGCATATGTGTTGGAGCAGGCTTCTTCTCATATCGGTAATTCCACT
CAGGCCACTGTGAGGGATGCAGTTGTTGGAAGACCATCCATGGATAAAAAAGCTCAATAGCATCTTAACGTGAAG
ATCAAACAAGAACACAACAAGCCCCTACTGATTTCTGGGTTTCTGCCACGGCCACAGGTTCATATCCAGAGGAAT
GGCAGATCTGAGACGATCCAGGAAGAGCTAAAACATGGCCCTGTAATAAATGAGCAGACCTCTCCTGTGGTTTCA
AATTATTAAACACACTTCCATTTCTCTTGGAAGCATTTCTTTTCCTTGCTGTTATAGATGCAAGCCTGTGTCTAT
TTTCATATTACTCTGCTTTGTGCACTTTATGGAGGAGGAAGCTAGAGGAAAAATGGAAATGCAGCTTTTAAGTTC
TTTATGTGCCACTTAGTGCCTTTTAAGATTGATTCCATGGTTTTGCACACACGATGGGGAGGGGATGGAGGATAA
CCTCATGAAAGGTGCCGTTTTCGGGTGAAACTTGACATTTCTTTTATACTTTACTCTTTTGAGAAGGATTCTTTT
TTTTTTTTTTTTTTTTTTTGAGTTGGAGTCTCGCTCTGTCACCAGGCTTGAGTGCAGTGGTGTGATCTTGGCTCA
CTGCAACCTCTGCCTGCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGTACG
CCACCATA

FIGURE 87

ATGCCTAGCCCATCCCCAAAATGGGAGTCTCAGGAAGCTATATTTGAAGCATTACTGGAAAAAGGGAGAAGACCT
GTGGGTGGGGCCCTCCTGGCGGGGGCCCCAGGGCAAGATCTTCAGCTGGAAGGGGGTGCCTTGGGGTCCTGGGGG
AGTGCCCCCCTGCCCTCCTCCAGGGCCAGGGGACCAGCATCTTCAGGCAGGAAATATTCAGACCACTGTGAGGCC
CGGGCCTCGAGGCCTGGAAAGAGCCGCATCCCTGGCCGTGACCACCGGCGCTACTACCACGACCACTGGCGGCTG
GAGTACCTGATGGACTTCAACCCTGCCCGGCACGGCATGGTGTGCATGGTGTGCGGCAGCTCCCTGGCCACCCTC
AAGCTCAGCACCATCAAGCGCCACATCCGCCAAAAGCACCCCTACTCCTTGCATTGGAGTCCCCGGGAGAAGGAA
GTCATCAGCAACAGCTGGGATGCACACCTGGGGCTGGGGGCCTGCGGAGAGGCCGAGGGCCTGGGGGTGGGGGAA
GGACAGTGGGGTGAGAGGGTCTCCGATGTCCATGACAGCTTGTACATTCTGTGGTTTTTGAAGTATCAAGGAGAG
AAGTTGGGTGACAGGCAGTGGAAAGGCTTGGAGCAGGGAGGCCTGGCTGGGGTGGGCAAAGCCCCAGCTGGTGGG
GGCTGCCGGCGCCAGCGGCGAGGGGGCCCAGTGGCACCCCGGGCTCGGCGTCTGCGCCTCTCAGCCTCCCGGAGG
GCCGGGGGCAGCAGGGGGCTGGGGGCCCGGCGCCTGGAGAGGAGGCTGAAGGAGTCCCTGCAGAACTGGTTCCGG
GCCGAGTGTCTCATGGACTATGACCCGCGGGGGAACCGGCTGGTGTGCATGGCCTGTGGCCGGGCACTGCCCAGC
CTGCACCTGGACGACATCCGTGCCCACGTGCTGGAGGTGCACCCTGGCTCCCTGGGGCTCAGCGGCCCCCAGCGC
AGTGCCCTGCTGCAGGCCTGGGGGGGCCAGCCCGAGGCGCTGTCTGAGCTCACCCAGTCCCCACCAGGCGATGAC
CTCGCCCCCCAGGACCTGACCGGAAAGAGCCGGGACTCGGCCTCCGCTGCTGGAGCCCCCTCCTCTCAGGATCTC
AGCCCCCCAGACGAGCGCTGGCGGCTGGAGTACCTCATGGAGTTGGACGGCGGCCGGCGCGGCCTGGTGTGCGGG
GTGTGCGGGGGCGCGCTGGCCTCGCTCAAGATGAGCACCATCGAGCGCCACATCCGCCGGCGCCACCCGGGCTCC
ACGCGCCTCGGCGGGCCTGTCCAGGCCCTCATCGCCCGGGAGTGGAGCGAGAAGGCCGCCCACCTGCTGGCCCTG
GGGCCGCCCCGCCCCGAATCGGAAAACCCTTCACCGACGCGGCGGGCCGACAAGAGGCGTGACCCGGCAGAACGC
GTTAACGCTCGCCGGCACCAGGCGCGGCCCACCACGATGACGTGCAACTGGTCAATGCGACCCGAACCGTTCGAA
CCCTCAAAATCGGTGGCAAAACGTGACCCGCAAGCGAACAGCTACATTTCTGCTCAGCAGACCCGAAGCCAACCG
ACCCTCTGGGTGACCCGCGCCCGGAGGTCGGATGCGCGACCCCCTTCGACCGTCAGGCGGCGCGGCCGAGCCTTC
GCAAAACGACCCAAGCCGAACCGCCGACTTTCGCCTTTTGCGCTCTTACACGCGCCTCTCCCACATAGCGAAAAG
GCGGGCGACTTGCGAGGCACGGAGGTCGGAGAACCGACCTGGTACTACGTCCCTTTAACGTTTTTAAGCGACGGG
ACACGAGCAAAACCTGATGCACGAAAAACAACGTCGAAAAAAAACATGAAAAATAAAAAAGGCAACCCGACTCGG
ATTCCCCCGGTCCGTACCAGTTCTAAGTCGGCTGTTCGACGCCGGCCGAAGCGGGCCGCGAGGCCCGCGTTAGCT
GCGGCATTCCACGGGAAGACGCCGACACAGAGGCTGTTCACCTTGGAGACCTGCTGCGGATATGGGTACGACCTC
GCACGAAAATTACACCGTCTCCCTCGGATTTTCAAGGGCCGACGCGAGCTCACCGGACAGCACAAGAGACGTGCT
GCTTTACGGGGCCCATGTCCCTATCTCCGGGCGAACCGATTCCAGGGTCGCCGCCCCTTACCAAGAAAAGAGAAC
TCTTCCCGGGACCCACGTCGGCGTTTCCGAGTTCGTTTGCGTTGCCGCACTAGGCGCCGGAGCGCCAATCTCCGC
GTCGAGACGGGTCGGGAAGGTGGCTGGCGTCAGCCGCTGACCCGCGGCACCTCGCGAGGGAGCGACCGCTCGGAA
CCGCGCCGAGACGACCCGGGACTGAGGACAGTCCCGGACCGCGACACGACGCTGCTCGAACGGCTTCCCCGGCCC
CGCGAACGGGGCAGCCGGTCGCGGCCCTCGTCCGACGCTAGTGCGCCGAGCCGTCGGCCGGCGACGCGAGTCGAG
GCCCGCGAAGGTCCCCGATCCCGCGACCCGGTCTCCGGCCCGCCTGAAAGCGACCGAACGACCCGACAGGCCCTC
CCGTTTGCCTCTCGACGGTTTCACGTACTTTTTAACTCTCTCTCCAAAGTGCTTTTCAACTTTCCCTCACGGTAC
TTGTTCGCTATCGGTCTCGTGACCGTATTTAGCCTTAGATGGAGTTTACCACCCGCTTTGGGCTGCATTCCCAAA
CAACCCGACTCCGGGAAGACACCGAGAGCCCGGGCCAGCCGCCGCCAAGGGCCTGACACCCGCTATGGGATGAAG
CCTCGATCAGAAGGACGTGGGCAGCCGGTCCGCGCTCGAAGCGAATTCCATACGCCACAATTCCGTCCGCTCCAT
AAGCGGCCGGATTCGGCGCTGGGCTCGTCCCGCTTCACTCGCCGTTACTGA

FIGURE 88

CAGGTGACCAGCGCC**ATG**TCCAGCCAGGTGGTGGGCATTGAGCCTCTCTACATCAAGGCAGAGCCGGCCAGCCCT
GACAGTCCAAAGGGTTCCTCGGAGACAGAGACCGAGCCTCCTGTGGCCCTGGCCCCTGGTCCAGCTCCCACTCGC
TGCCTCCCAGGCCACAAGGAAGAGGAGGATGGGGAGGGGGCTGGGCCTGGCGAGCAGGGCGGTGGGAAGCTGGTG
CTCAGCTCCCTGCCCAAGCGCCTCTGCCTGGTCTGTGGGGACGTGGCCTCCGGCTACCACTATGGTGTGGCATCC
TGTGAGGCCTGCAAAGCCTTCTTCAAGAGGACCATCCAGGGGAGCATCGAGTACAGCTGTCCGGCCTCCAACGAG
TGTGAGATCACCAAGCGGAGACGCAAGGCCTGCCAGGCCTGCCGCTTCACCAAGTGCCTGCGGGTGGGCATGCTC
AAGGAGGGAGTGCGCCTGGACCGCGTCCGGGGTGGGCGGCAGAAGTACAAGCGGCGGCCGGAGGTGGACCCACTG
CCCTTCCCGGGCCCCTTCCCTGCTGGGCCCCTGGCAGTCGCTGGAGGCCCCCGGAAGACAGCAGCCCCAGTGAAT
GCACTGGTGTCTCATCTGCTGGTGGTTGAGCCTGAGAAGCTCTATGCCATGCCTGACCCCGCAGGCCCTGATGGG
CACCTCCCAGCCGTGGCTACCCTCTGTGACCTCTTTGACCGAGAGATTGTGGTCACCATCAGCTGGGCCAAGAGC
ATCCCAGGCTTCTCATCGCTGTCGCTGTCTGACCAGATGTCAGTACTGCAGAGCGTGTGGATGGAGGTGCTGGTG
CTGGGTGTGGCCCAGCGCTCACTGCCACTGCAGGATGAGCTGGCCTTCGCTGAGGACTTAGTCCTGGATGAAGAG
GGGGCACGGGCAGCTGGCCTGGGGGAACTGGGGGCTGCCCTGCTGCAACTAGTGCGGCGGCTGCAGGCCCTGCGG
CTGGAGCGAGAGGAGTATGTTCTACTAAAGGCCTTGGCCCTTGCCAATTCAGACTCTGTGCACATCGAAGATGCC
GAGGCTGTGGAGCAGCTGCGAGAAGCTCTGCACGAGGCCCTGCTGGAGTATGAAGCCGGCCGGGCTGGCCCCGGA
GGGGGTGCTGAGCGGCGGCGGGCGGGCAGGCTGCTGCTCACGCTACCGCTCCTCCGCCAGACAGCGGGCAAAGTG
CTGGCCCATTTCTATGGGGTGAAGCTGGAGGGCAAGGTGCCCATGCACAAGCTGTTCTTGGAGATGCTCGAGGCC
ATGATGGAC**TGA**GTGCAAGGGGTGGGACTGGTGGGGGTTCTGGCAGGACCTGCCTAGCATGGGGTCAGCCCCAAG
GGCTGGGGCGGAGCTGGGGTCTGGGCAGTGCCACAGCCTGCTGGCAGGGCCAGGCAATGCCATCAGCCCCTGGGA
ACAGGCCCCACGCCCTCTCCTCCCCCTCCTAGGGGGTGTCAGAAGCTGGGAACGTGTGTCCAGGCTCTGGGCACA
GTGCTGCCCCTTGCAAGCCATAACGTGCCCCCAGAGTGTAGGGGGCCTTGCGGAAGCCATAGGGGGCTGCACGGG
ATGCGTGGGAGGCAGAAACCTATCTCAGGGAGGGAAGGGGATGGAGGCCAGAGTCTCCCAGTGGGTGATGCTTTT
GCTGCTGCTTAATCCTACCCCCTCTTCAAAGCAGAGTGGGACTTGGAGAGCAAAGGCCCATGCCCCCTTCGCTCC
TCCTCTCATCATTTGCATTGGGCATTAGTGTCCCCCCTTGAAGCAATAACTCCAAGCAGACTCCAGCCCCTGGAC
CCCTGGGGTGGCCAGGGCTTCCCCATCAGCTCCCAACGAGCCTCCTCAGGGGGTAGGAGAGCACTGCCTCTATGC
CCTGCAGAGCAATAACACTATATTTATTTTTGGGTTTGGCCAGGGAGGCGCAGGGACATGGGGCAAGCCAGGGCC
CAGAGCCCTTGACTGTACAGAGACTCTATTTTAATGTATATTTGCTGCAAAGAGAAACCGCTTTTGGTTTTAAAC
CTTTAATGAGAAAAAAATATATAATACCGAGCTC

FIGURE 89

TCCGGTTCCGGCCTGGCGAGAGTTTGTGCGGCGAC**ATG**AAACTGCTTACCCACAATCTGCTGAGCTCGCATGTGC
GGGGGGTGGGGTCCCGTGGCTTCCCCCTGCGCCTCCAGGCCACCGAGGTCCGTATCTGCCCTGTGGAATTCAACC
CCAACTTCGTGGCGCGTATGATACCTAAAGTGGAGTGGTCGGCGTTCCTGGAGGCGGCCGATAACTTGCGTCTGA
TCCAGGTGCCGAAAGGGCCGGTTGAGGGATATGAGGAGAATGAGGAGTTTCTGAGGACCATGCACCACCTGCTGC
TGGAGGTGGAAGTGATAGAGGGCACCCTGCAGTGCCCGGAATCTGGACGTATGTTCCCCATCAGCCGCGGGATCC
CCAACATGCTGCTGAGTGAAGAGGAAACTGAGAGT**TGA**TTGTGCCAGGCGCCAGTTTTTCTTGTTATGACTGTGT
ATTTTTGTTGATCTATACCCTGTTTCCGAATTCTGCCGTGTGTATCCCCAACCCTTGACCCAATGACACCAAACA
CAGTGTTTTTGAGCTCGGTATTATATATTTTTTTCTCATTAAAGGTTTAAAACC

FIGURE 90

AGGGCACAGCCAGCAGCGAGGTGAATGCCACTGAGGAGATGTCCACGCTTGTCAACTACATCGAACCTGTCAAGT
TCAAGTCCTTTGAGGCTGCTCGAAAGAGGAACAAATGCTTCGAGATGTCGTCCTTTGTGGAGACCAAGGCCATGG
AGCAACTGACCAAGAGCCCCATGGAGTTTGTGGAATACAACAAGCAGCAGCTCAGCCGCATCTACCCCAAGGGCA
CCCGCGTGGACTCCTCCAACTACATGCCCCAGCTCTTCTGGAACGTAGGGTGCCAGCTTGTTGCGCTCAACTTCC
AGACCCTCGATGTGGCGATGCAGCTCAACGCGGGCGTTTTTGAGTACAACGGGCGCAGCGGGTACCTGCTCAAGC
CGGAGTTCATGCGGCGGCCGGACAAGTCCTTCGACCCCTTCACTGAGGTCATCGTGGATGGCATCGTGGCCAATG
CCTTGCGGGTCAAGGTGATCTCAGGGCAGTTCCTGTCCGACAGGAAGGTGGGCATCTACGTGGAGGTGGACATGT
TTGGCCTCCCTGTTGATACGCGGCGCAAGTACCGCACCCGGACCTCTCAGGGGAACTCGTTCAACCCCGTGTGGG
ACGAAGAGCCCTTCGACTTCCCCAAGGTGGTGCTGCCCACGCTGGCTTCACTTCGCATTGCAGCCTTTGAGGAGG
GGGGTAAATTCGTAGGGCACCGGATCCTGCCTGTCTCTGCCATCCGCTCCGGATACCACTACGTCTGCCTGCGGA
ACGAGGCCAACCAACCGCTGTGCCTGCCGGCCCTGCTCATCTACACCGAAGCCTCGGACTACATTCCTGACGACC
ACCAGGACTATGCGGAGGCCCTGATCAACCCCATTAAGCACGTCAGCCTGATGGACCAGAGGGCCCGGCAGCTGG
CCGCCCTCATTGGGGAGAGTGAGGTCAGTGTGATGATCTCATCGCCAGCATCCTCTCAGGATGAGCTCCGAGGTC
ACAAGGCTCTGGTCAAGCTCCGGAGCCGGCAAGAGCGAGACCTGCGGGAGCTGCGCAAGAAGCATCAGCGGAAGG
CAGTCACCCTCACCCGCCGCCTGCTGGATGGCCTGGCTCAGGCACAGGCTGAGGGCAGGTGCCGGCTGCGGCCAG
GTGCCCTAGGTGGGGCCGCTGATGTGGAGGACACGAAGGAGGGGGAGGACGAGGCAAAGCGGTATCAGGAGTTCC
AGAACAGACAGGTGCAGAGCCTGCTGGAGCTGCGGGAGGCCCAGGTGGACGCAGAGGCCCAGCGGAGGCTGGAAC
ACCTGAGACAGGCTCTGCAGCGGCTCAGGGAGGTCGTCCTTGATGCAAACACAACTCAGTTCAAGAGGCTGAAAG
AGATGAACGAGAGGGAGAAGAAGGAGCTGCAGAAGATCCTGGACAGAAAGCGCCATAACAGCATCTCGGAGGCCA
AGATGAGGGACAAGCATAAGAAGGAGGCGGAACTGACGGAGATTAACCGTCGGCACATCACTGAGTCAGTCAACT
CCATCCGTCGGCTGGAGGAGGCCCAGAAGCAGCGGCATGACCGTCTTGTGGCTGGGCAGCAGCAGGTCCTGCAAC
AGCTGGCAGAAGAGGAGCCCAAGCTGCTGGCCCAGCTGGCCCAGGAGTGTCAGGAGCAGCGGGCGAGGCTCCCCC
AGGAGATCCCGCCGGAGCCTGCTGGGCGAGATGCCGGAGGGGCTGGGGGACAGGGCCTCTGGTGGCCTGTGCAAG
CAACCGGTCACGCACCCCGGGAGCAGCGGGCACCTGTCGGGCGCTGACTCGGAGAGCCAGGAGGAGAACACGCAG
CTCTGA

FIGURE 91

CACGGGCGGGGCGGGGCCTGGGTCCACCGGGGTTCTGAGGGGAGACTGAGGTCCTGAGCCGACAGCCTCAGCTCC
CTGCCAGGCCAGACCCGGCAGACAGATGAGGGCCCAGGAGGCCTGGCGGGCCTGGGGGCGCTACGGTGGGAGAGG
AAGCCAGGGGTACCTGCCTCTGCCTTCCAGGGCCACCGTTGGCCCCAGCTGTGCCTTGACTACGTAACATCTTGT
CCTCACAGCCCAGAGC**ATG**TTCCAGATCCCAGAGTTTGAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAG
GGGCCTGGGCCCCAGCCCCGCAGGGGACGGGCCCTCAGGCTCCGGCAAGCATCATCGCCAGGCCCCAGGCCTCCT
GTGGGACGCCAGTCACCAGCAGGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGGCTGTGGAGATCCG
GAGTCGCCACAGCTCCTACCCCGCGGGGACGGAGGACGACGAAGGGATGGGGGAGGAGCCCAGCCCCTTTCGGGG
CCGCTCGCGCTCGGCGCCCCCCAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGATGAGTGACGA
GTTTGTGGACTCCTTTAAGAAGGGACTTCCTCGCCCGAAGAGCGCGGGCACAGCAACGCAGATGCGGCAAAGCTC
CAGCTGGACGCGAGTCTTCCAGTCCTGGTGGGATCGGAACTTGGGCAGGGGAAGCTCCGCCCCCTCCCAG**TGA**CC
TTCGCTCCACATCCCGAAACTCCACCCGTTCCCACTGCCCTGGGCAGCCATCTTGAATATGGGCGGAAGTACTTC
CCTCAGGCCTATGCAAAAAGAGGATCCGTGCTGTCTCCTTTGGAGGGAGGGCTGACCCAGATTCCCTTCCGGTGC
GTGTGAAGCCACGGAAGGCTTGGTCCCATCGGAAGTTTTGGGTTTTCCGCCCACAGCCGCCGGAAGTGGCTCCGT
GGCCCCGCCCTCAGGCTCCGGGCTTTCCCCCAGGCGCCTGCGCTAAGTCGCGAGCCAGGTTTAACCGTTGCGTCA
CCGGGACCCGAGCCCCCGCGATGCCCTGGGGGCCGTGCTCACTACCAAATGTTAATAAAGCCCGCGTCTGTGCCG
CC

FIGURE 92

AGCGGCCGCTGCCCTGACCCGACGGGTATCAGCCGGCTCTCCCCCTCCACCCAGGACGACATGAACGACCGAGGC
CAGGGAGTCCTCTCCTTGGGCCTCTGCATCCCCCCATCCTTGGCTCTGGGGTAGGCCCAGGGAGGAGACACCCCC
AACCCCTATCCGGTCTGTCCTGGAGAAAAGAGACTGCCCTTCCATGCCCCTGAGTGAGGGGCCTGGGGCCCAGGC
TGCCTGTGTTCCCCAAGGGCAAGGGTCTCTCTGTTGAGGAGGAGGGGCCTGTCAGCCACAACTTCTTTCCTCCTG
AGCGCCCCATCTCCCTCTCTGCACCCTGCAATTCCCACCCCTCCGTATTTATTTCCCTGGTCCCGCCGACAGTCC
CCTCCTTGTCTGTCTCCGGGATTCAGGCCTCCCTCCCTGAC**ATG**GAGAGTAACCTGTCTGGCCTGGTGCCTGCTG
CCGGGCTGGTGCCTGCGCTGCCACCTGCTGTGACCCTGGGGCTGACAGCTGCCTACACCACCCTGTATGCCCTGC
TCTTCTTCTCCGTCTATGCCCAGCTCTGGCTGGTGCTTCTGTATGGGCACAAGCGTCTCAGCTATCAGACGGTGT
TCCTGGCCCTCTGTCTGCTCTGGGCCGCCTTGCGTACCACCCTCTTCTCCTTCTACTTCCGAGATACTCCCCGCG
CCAACCGCCTGGGGCCCTTGCCCTTCTGGCTTCTCTACTGCTGCCCCGTCTGCCTGCAGTTCTTCACCTTGACGC
TTATGAACCTCTACTTTGCCCAGGTGGTGTTCAAGGCCAAGGTGAAGCGTCGGCCGGAGATGAGCCGAGGCTTGC
TCGCTGTCCGAGGGGCCTTTGTGGGGGCCTCGCTGCTCTTTCTGCTGGTGAACGTGCTGTGTGCTGTGCTCTCCC
ATCGGCGCCGGGCACAGCCCTGGGCCCTGCTGCTTGTCCGCGTCCTGGTGAGCGACTCCCTGTTCGTCATCTGCG
CGCTGTCTCTTGCTGCCTGCCTCTGCCTCGTCGCCAGGCGGGCGCCCTCCACTAGCATCTACCTGGAGGCCAAGG
TAGGGCTGCAGCAC**TGA**TGCCCAGGTGTCTTTTGGGTCTCTCGGCAGCGGTTCTCAGGGTGTAGAG

FIGURE 93

CAGGCTTAGGCTCTCTTTGGGCCTCCCACTCGCCTTCCTTTCCCTTCTCGGTGCCCTCCTCTCTTTCCTCACCCG
GTAGTCCCAGACAGGGGCTGAGGGCCGGGCAGCGGAGGTAAGGGGAAGGCTGGAGATAGGAGGGGGACTGGGTGT
GTCCAGCCAGAGGGATGTCTGTGGACAGTGCAGCTGGGGGCTTTATGGATCTTTGGGTGTGTAGGGGATAGAGGA
GGAGGGTGTGGGTGTCAGGCCAGCTCAGTGACCCCAGCATCCCTGGTTTTGCCCGCAGTGACGACAGCTCCCCAG
GAGCCCCCCGCCCGGCCCCTCCAGGCGGGCAGTGGAGCTGGCCCGGCGCCTGGGCGCGCCATGCGCAGCACCACG
CTCCTGGCCCTGCTGGCGCTGGTCTTGCTTTACTTGGTGTCTGGTGCCCTGGTGTTCCGGGCCCTGGAGCAGCCC
CACGAGCAGCAGGCCCAGAGGGAGCTGGGGGAGGTCCGAGAGAAGTTCCTGAGGGCCCATCCGTGTGTGAGCGAC
CAGGAGCTGGGCCTCCTCATCAAGGAGGTGGCTGATGCCCTGGGAGGGGGTGCGGACCCAGAAACCAACTCGACC
AGCAACAGCAGCCACTCAGCCTGGGACCTGGGCAGCGCCTTCTTTTTCTCAGGGACCATCATCACCACCATCGGC
TATGGCAATGTGGCCCTGCGCACAGATGCCGGGCGCCTCTTCTGCATCTTTTATGCGCTGGTGGGGATTCCGCTG
TTTGGGATCCTACTGGCAGGGGTCGGGGACCGGCTGGGCTCCTCCCTGCGCCATGGCATCGGTCACATTGAAGCC
ATCTTCTTGAAGTGGCACGTGCCACCGGAGCTAGTAAGAGTGCTGTCGGCGATGCTTTTCCTGCTGATCGGCTGC
CTGCTCTTTGTCCTCACGCCCACGTTCGTGTTCTGCTATATGGAGGACTGGAGCAAGCTGGAGGCCATCTACTTT
GTCATAGTGACGCTTACCACCGTGGGCTTTGGCGACTATGTGGCCGGCGCGGACCCCAGGCAGGACTCCCCGGCC
TATCAGCCGCTGGTGTGGTTCTGGATCCTGCTCGGCCTGGCTTACTTCGCCTCAGTGCTCACCACCATCGGGAAC
TGGCTGCGAGTAGTGTCCCGCCGCACTCGGGCAGAGATGGGCGGCCTCACGGCTCAGGCTGCCAGCTGGACTGGC
ACGGTGACAGCGCGCGTGACCCAGCGAGCCGGGCCCGCCGCCCCGCCGCCGGAGAAGGAGCAGCCACTGCTGCCT
CCACCGCCCTGTCCAGCGCAGCCGCTGGGCAGGCCCCGATCCCCTTCGCCCCCCGAGAAGGCTCAGCCGCCTTCC
CCGCCCACGGCCTCGGCCCTGGATTATCCCAGCGAGAACCTGGCCTTCATCGACGAGTCCTCGGATACGCAGAGC
GAGCGCGGCTGCCCGCTGCCCCGCGCGCCGAGAGGTCGCCGCCGCCCAAATCCCCCCAGGAAGCCCGTGCGGCCC
CGCGGCCCCGGGCGTCCCCGAGACAAAGGCGTGCCGGTGTAGGGGCAGGATCCCTGGCCGGGCCTCTCAAGCTCT
CCCCGGCATGCCTGGCTTGTTTGACCAAAGAGCCCTCTTTCCACGAGACTGAAGTCTGGGGAGGAGGCTACAGTT
GCCTCTCCGACCTCCTCCCTGGCCCCGGCCCTTCCCTCACTTCCATCCATCTCTAGACCCCCCCAAGGCTTTCTG
TGTCGCTGCCCCGGGCGGGTGTATCCCTCACAGCACCTCACGACTGTGCCTCAAAGCCTGCATCAATAAATGAAA
ACGGTCTGC

FIGURE 94

GAGGTGGCTGATGCCCTGGGAGGGGGTGCGGACCCAGAAACCAACTCGACCAGCAACAGCAGCCACTCAGCCTGG
GACCTGGGCAGCGCCTTCTTTTTCTCAGGGACCATCATCACCACCATCGGCTATGGCAATGTGGCCCTGCGCACA
GATGCCGGGCGCCTCTTCTGCATCTTTTATGCGCTGGTGGGGATTCCGCTGTTTGGGATCCTACTGGCAGGGGTC
GGGGACCGGCTGGGCTCCTCCCTGCGCCATGGCATCGGTCACATTGAAGCCATCTTCTTGAAGTGGCACGTGCCA
CCGGAGCTAGTAAGAGTGCTGTCGGCG**ATG**CTTTTCCTGCTGATCGGCTGCCTGCTCTTTGTCCTCACGCCCACG
TTCGTGTTCTGCTATATGGAGGACTGGAGCAAGCTGGAGGCCATCTACTTTGTCATAGTGACGCTTACCACCGTG
GGCTTTGGCGACTATGTGGCCGGTAAACTGGGGGGAGGGGGGGCGCAACCTGGAAACACCAGAAGTCTTCTACAAG
GGCTGTGGCCTCCCACAAAGTCCAGATGTCCTTGTGCTACCCTGTGCCCGTTGGGACTGCAGAGCCCCTGGAGAA
CAAGAACTTGGCCGCTACATGTCCGCATCCCCCACAGAGCCTTCTCTGGAGACAGTGTCTGGAACTGTTGACGTT
TTTAGGTACCAT**TGA**

FIGURE 95

GCGCCGTAAATAGAGTCCAAGTGGGCGGAGAGCCGTCCCGCGCCGCCCGCTC**ATG**TCTCTACAGAGCCGACTGTC
CGGCCGCCTGGCACAGCTGCGCGCGGCGGGGCAGCTGCTCGTCCCCCCGCGCCCCCGGCCCGGACACTTGGCGGG
TGCCACGAGGACCCGCAGCAGCACGTGCGGTCCCCCGGCGTTCCTGGGCGTGTTCGGCCGCCGTGCGCGGACCTC
GGCGGGAGTTGGGGCGTGGGGGGCGACGNCGGTGGGGCGGACAGCCGGGGTGCGCACTTGGGCCCCCCTGGCCAT
GGCGGCGAAGGTGGACCTGAGCACCTCCACCGACTGGAAGGAGGCGAAATCCTTTCTGAAGGGCCTGAGTGACAA
GCAGCGGGAGGAACATTACTTCTGCAAGGACTTTGTCAGGCTGAAGAAGATCCCGACATGGAAGGAGATGGCGAA
AGGGGTGGCTGTGAAGGTGGAGGAGCCCAGGTATAAAAAGGACAAGCAGCTCAATGAGAAAATCTCCCTGCTCCG
CAGCGACATCACCAAGCTGGAGGTGGACGCCATCGTCAACGCCGCCAACAGCTCCCTGCTCGGAGGCGGTGGCGT
GGACGGCTGCATTCATCGGGCCGCCGGCCCCCTGCTTACCGACGAGTGCCGGACCCTGCAGAGCTGTAAGACTGG
CAAGGCCAAGATCACCGGCGGCTATCGGCTCCCGGCCAAGTACGTCATCCACACAGTGGGGCCCATCGCCTACGG
GGAGCCCAGCGCCAGCCAGGCTGCCGAGCTCCGCAGCTGCTACCTGAGCAGTCTGGACCTGCTGCTGGAGCACCG
GCTCCGCTCGGTGGCGTTCCCCTGCATCTCCACCGGCGTGTTTGGCTACCCCTGTGAGGCGGCCGCCGAGATCGT
GCTGGCCACGCTGCGAGAGTGGCTGGAGCAGCACAAGGACAAGGTGGACCGGCTGATCATCTGCGTGTTCCTCGA
GAAGGACGAGGACATCTACCGGAGCCGGCTCCCCCACTACTTCCCCGTGGCC**TGA**GGCTCCCGCAGCCCACCCTG
ACCGGGACTGACCCGCCTTCGGGACCCCGCTCCCAGCTCTGAGAGGTCGCCAAAGCCTGCAGCCTGGCCTGGGCC
TGGCCACCCCTTCTTTCCCTCCGCGCCCCGCCCCCGAGGAGCCTAATAAAGATCTCGTTGTGGC

FIGURE 96

GATTACAGGCATGAGCCACTGTGCCTGGCCATATGGGACATCTTGTAACTGGGAGTTGGAGTCCTGGGTACAAGT
CCTGGCTTCACCGTGTACCAGCTTTGTGACCTTGGGCAAATCACTTAACCTCTCTGAGCCTGTTTTCTTGTCTGT
AAAACAGGGATAAGAGTGCATGGGGACCCAGCCCCCAGCACTGTGGGTTTGAGAGGAGACTGCTTGTGTAGGATG
CTCAGTACAGTGTCTGGCACAGAGTGAGCGCCCAGGAGATGCCAGCTCTAGTTCTTGTTGCCATAGCTGCTGCTC
TGGGAGGGCTGCTGAGACCCGCTGAACCGGGCATCCCATCAGCCAGCACCTGCCCTGCACCCAGCCCTTGGTGGG
GCTGGGAACGGGGGAATGGTCCCTCTATCCTGAACAGGCTGAAGGCACCTCCTTCCCATATTCGTGGTAGGGAAT
CGAGTCACCTGCTGGACCTGGCATGGCCGAGGGGACGGCCCTCTCCTGACTGCCAGAGTCTCTTGGATGGGCTTC
CTGACCATGAGGGCACAGGGCAGGCAGCCTGGGCCCCTCACTCCCCACTGCCAGCAAGGCGGTCCATGCCTGCTC
TGCCTTCCATTGGGAAAGATGTGTGGTCACATGGAAACGGCCTGTGCAGTGGGGCGTGAGGTGGGCTAGGACAGG
GGATGTCCCCAGAGAAGCCAGGTGACTGAAGTGGCCCTGTCAGGGCCTGGCTGCCATCTGCTGAGGCCTAAGCTG
CCAGAGAAGACCCCTGAAGGCCTTCAGGGGTGGGGTGGAGGGCGCTGGCATGCTTGGTTGGCCAGCTTTGGAGGT
CCCAGAGGCCAGGGCAGTGGCTGCTTACCAGACAGAACTGGCTAAGATCTGGTTCCTCCACTATGTTGGGCAAGC
CCCTGCCTCTTTTTTTTTTCTTTTTTTGAGACTGAGTCTCGCTCTGTCACCCAGGCTAGAGTGCAGTGGCGTGAT
CTCGGCTCACTGCAAGCTTCGCCTCCCAGGTTCATGCTATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTAC
AGGCGCCCGCCACCACGCCCGGCTAATTTTTTGTATTTTTAGTAGATACGGGGTTTCACCGTGTTAGCCAGGATG
GTCTTGATCTCCTGACCTCGTGATCCGCCCGCCTCCACCTCCTAAAGTGCTGGGATTACAGGCATGAGCCACCGC
ACCCGGCCAGCCCCTGCCTCTTTAGGCCTTGGGGTTTCCCATCTGTTCCTTATGGGGGCATTAATAGGAAAAAAA
TGCATTACCACACTGGAGGGGCTCATAAACGGTAGTGACTGTTATTAGCAGTGAGGGATCTCACTTCACCACCCA
CAGGACTCCGAGCCCCTCGAGGGCAGGGGCAGCTCCATGGACTCTGGGTCTCCGTCCCTGGACAGGGCTCCTCTG
CGGTGGGGGCAGCCCGAGCATGCCTGCCCCTGGAAGGACATACAGGAACTCATGATGGCTCATGGCTAAGGAGTC
TTATGGGGAAGCAGGCTGCCCTGGTGGGCACGGCTGTGTGGGAGTCTCCTGCTCTGTCCACTCCTGGCAGGGGCA
GGGACGCGGCTGTTTATATCCGCGCCGGGTGTCAGGAGATGGAAGCCAGGGAGGACGGGAGGATGCAGGAGCATG
GAGAGCATGTGGGCTGCAGATCCGGGGGAGGATGGGCACCAGGACAGAGCTTGTCCTGACAGTGGTGCGGGAGGC
AGTGAGCAGAGGTGGGGCTGAGAGGTCACTGGCGGCTTCCTCCACTGAGGCATGGCTGGCATTCCCTTCGGTTCA
TTAAAACCCATCAGTGGGCCGGGCGCGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGG
ATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAAGATAGTGAAACCCTGTCTCTACAAAAATACAAAAATT
AGCTGGGCATGATGGCAGGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGG
AGGCAGAAGTTGCAGTGAGCTGAGATGGTGCCACCGCACTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTT

FIGURE 97

AGGTATTCAGGCTCCAGGCCAGGTGGGGCCGGACGCCCCCAGCCATCCACCATGGTGGTGGCACACCCCACCGCC
ACTGCCACCACCACGCCCACTGCCACTGTCACGGCCACCGTTGTGATGACCACGGCCACCATGGACCTGCGGGAC
TGGCTGTTCCTCTGCTACGGGCTCATCGCCTTCCTGACGGAGGTCATCGACAGCACCACCTGCCCCTCGGTGTGC
CGCTGCGACAACGGCTTCATCTACTGCAACGACCGGGGACTCACATCCATCCCCGCAGATATCCCTGATGATGCC
ACCACCCTCTACCTGCAGAACAACCAGATCAACAACGCCGGCATCCCCCAGGACCTCAAGACCAAGGTCAACGTG
CAGGTCATCTACCTATACGAGAATGACCTGGATGAGTTCCCCATCAACCTGCCCCGCTCCCTCCGGGAGCTGCAC
CTGCAGGACAACAATGTGCGCACCATTGCCAGGGACTCGCTGGCCCGCATCCCGCTGCTGGAGAAGCTGCACCTG
GATGACAACTCCGTGTCCACCGTCAGCATTGAGGAGGACGCCTTCGCCGACAGCAAACAGCTCAAGCTGCTCTTC
CTGAGCCGGAACCACCTGAGCAGCATCCCCTCGGGGCTGCCGCACACGCTGGAGGAGCTGCGGCTGGATGACAAC
CGCATCTCCACCATCCCGCTGCATGCCTTCAAGGGCCTCAACAGCCTGCGGCGCCTGGTGCTGGACGGTAACCTG
CTGGCCAACCAGCGCATCGCCGACGACACCTTCAGCCGCCTACAGAACCTCACAGAGCTCTCGCTGGTGCGCAAT
TCGCTGGCCGCGCCACCCCTCAACCTGCCCAGCGCCCACCTGCAGAAGCTCTACCTGCAGGACAATGCCATCAGC
CACATCCCCTACAACACGCTGGCCAAGATGCGTGAGCTGGAGCGGCTGGACCTGTCCAACAACAACCTGACCACG
CTGCCCCGCGGCCTGTTCGACGACCTGGGGAACCTGGCCCAGCTGCTGCTCAGGAACAACCCTTGGTTTTGTGGC
TGCAACCTCATGTGGCTGCGGGACTGGGTGAAGGCACGGGCGGCCGTGGTCAACGTGCGGGGCCTCATGTGCCAG
GGCCCTGAGAAGGTCCGGGGCATGGCCATCAAGGACATTACCAGCGAGATGGACGAGTGTTTTGAGACGGGGCCG
CAGGGCGGCGTGGCCAATGCGGCTGCCAAGACCACGGCCAGCAACCACGCCTCTGCCACCACGCCCCAGGGTTCC
CTGTTTACCCTCAAGGCCAAAAGGCCAGGGCTGCGCCTCCCCGACTCCAACATTGACTACCCCATGGCCACGGGT
GATGGCGCCAAGACCCTGGCCATCCACGTGAAGGCCCTGACGGCAGACTCCATCCGCATCACGTGGAAGGCCACG
CTCCCCGCCTCCTCTTTCCGGCTCAGTTGGCTGCGCCTGGGCCACAGCCCAGCCGTGGGCTCCATCACGGAGACC
TTGGTGCAGGGGGACAAGACAGAGTACCTGCTGACAGCCCTGGAGCCCAAGTCCACCTACATCATCTGCATGGTC
ACCATGGAGACCAGCAATGCCTACGTAGCTGATGAGACACCCGTGTGTGCCAAGGCAGAGACAGCCGACAGCTAT
GGCCCTACCACCACACTCAACCAGGAGCAGAACGCTGGCCCCATGGCGAGCCTGCCCCTGGCGGGCATCATCGGC
GGGGCAGTGGCTCTGGTCTTCCTCTTCCTGGTCCTGGGGGCCATCTGCTGGTACGTGCACCAGGCTGGCGAGCTG
CTGACCCGGGAGAGGGCCTACAACCGGGGCAGCAGGAAAAAGGATGACTATATGGAGTCAGGGACCAAGAAGGAT
AACTCCATCCTGGAAATCCGCGGCCCTGGGCTGCAGATGCTGCCCATCAACCCGTACCGCGCCAAAGAAGAGTAC
GTGGTCCACACTATCTTCCCCTCCAACGGCAGCAGCCTCTGCAAGGCCACACACACCATTGGCTACGGCACCACG
CGGGGCTACCGGGACGGCGGCATCCCCGACATAGACTACTCCTACACATGATGCCCGCCCACCCGGGCTGCCCCG
CCTCAGCCCCAGCTGCCCTGGCGTGGCCATGTGGCTTTGCCCAGCCTGCTGCAATCCAAGAGAGCAAGGAAGAGA
AATTCCATGGGTGACTTTCCTCCGCAGAAAGCAAAGTTTGGGGAGGGCTGACGATTTTGTAGAACACAACAGTGA
CAATTTTTTTTAAAAGAATAGAAGGCAGGAGGGGGAATTCGACATTGTTGAAGACATAATTTATACCAAGTTATG
CCAGTTGGGGAGGGAAGGACTAAAAATAATATTGCAGGCAGGGCTGGGTTGGGTTTTTTTTTTTTCCCCCCTGAA
CTGGAAGGATACTACCTGTACAACATCTGTGGACACCTCATGCTCTGTTCAAGGCCATCACAAAGGAACCGCCAG
GGAGAAGCAGCCGGCTCTCAAAGCTCCCACGCAGCTCTCCCGCCACTGGCCACTCGCTGGCGACCCGATGGAAGG
TTTTCAGGCTCCTCACAAAGGAGAGAGGGAAGAAAAGATCTTTTGCCCTGGAGATATGGTCCTGAAATCTCTCCC
CTGGCTTATTCCATACCATTTCCCTTGCAGATTTGCAGAAACATGGCATCTTTCACTGCATTCTTTGAACAATCA
TGTAGTCGATTAAAAAAAAAAAAC

FIGURE 98

GGCGAGGAAGGGGCGGGAGCCGGGGTCCCGGTAGCTTCTAGTAGGTTCCAGAAGGCGGCGCGTGCGGTTGGGAAC
GCGGAGCGGACGGATTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCAATGAGCTGAAGGAG
AAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAGCTATTAAGCTGGAT
CCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACCAGAAGGCTTATGAG
GATGGCTGCAAGACTGTCGACCTAAAGCCTGACTGGGGCAAGGGCTATTCACGAAAAGCAGCAGCTCTAGAGTTC
TTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAAACACGAGGCAAATAACCCTCAACTGAAA
GAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCCTTTCAACATGCCTAATCTGTAT
CAGAAGTTGGAGAGTGATCCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTA
CGAAACAAGCCTTCTGACCTGGGCACGAAACTACAAGATCCCCGGATCATGACCACTCTCAGCGTCCTCCTTGGG
GTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCCTCCCAAAAAGGAGACC
AAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAAGAGCTGGGGAACGAT
GCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGGACCCCACTAACATG
ACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAGCTTTGTGAGAAG
GCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTCGAATTGGCAACTCC
TACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGCACCGAACCCCAGAT
GTGCTCAAGAAATGCCAGCAGG

FIGURE 99

CCCAACGCACAGTACTGGTCCCAGTTTCACAGCGTGAGGCCACAGGGGCCCCAGTTGAGGCAGCAGCAACACAAA
CAAAACAAACAAGTGCTGGGGTACTGCCTCCTCCTCATGCTGGCGGGCATGGGCCTGCACTACATTGCCTTCAGG
AAGGTGAAGCAGATGCACCTTAACTTCATGGATGAAAAGGATCGGATCATCACAGCCTTCTACAACGAAGCCCGG
GCACGGGCCAGGTCTGTCCCTGCTCTATTCTGCTCCCTGCTCCCTGTCCAGGAACCACACTTCGGGATCCCTATC
CCAACCACCCAGGTGCCCTCTCCTCCAGGGCCAACAGAGGCATCCTTCAGCAGGAGCGACAACGGCTAGGGCAGC
GGCAGCCGCCACCATCCGAGCCAACCCAAGGCCCCGAGATCGTGCCCCGGGGCGCCGGCCCCTGAGGGGCTCACC
TGGATGGGGCCTGCAGTGCGTTCCCGCTTTGCTTCCTTCCTGGACGGCCCGCTCCCCGAAACGCGCGCAATAAAG
TGATTCGCAGA

FIGURE 100

GGCGGCTGGTGAGCGCCCGCTGGAGGCTGGAGCTTCCGGGCCCTGGAAAGGGGTCCCCGCGCGCCCCGGGTCGGA
GGCAGACCCCTGGGTTTGGGGGACATGGGCATTTGGGGCGCCTGAACCCAAGACCTCTGGATGAGCTGCCCCGTT
CAGACCATGGATCCTGAGGTGACCTTGCTGCTGCAGTGCCCTGGCGGGGGCCTGCCCCAGGAGCAGATACAGGCC
GAGCTGAGCCCCGCCCATGACCGTCGCCCACTGCCAGGTGGGGACGAGGCCATCACTGCCATCTGGGAGACCCGG
CTAAAGGCCCAACCCTGGCTCTTCGACGCCCCCAAGTTCCGCCTGCACTCAGCCACCCTGGCGCCTATTGGCTCT
CGGGGGCCACAGCTGCTCCTGCGCCTGGGCCTTACTTCCTACCGAGACTTCCTGGGCACCAACTGGTCCAGCTCA
GCTGCCTGGCTGCGACAGCAGGGTGCCACCGACTGGGGTGACACGCAGGCCTATCTGGCGGACCCACTGGGGGTG
GGCGCTGCACTAGCCACAGCCGATGACTTCCTTGTCTTCCTGCGCCGCTCCCGGCAGGTGGCTGAGGCCCCTGGG
CTGGTGGACGTACCTGGTGGGCACCCTGAGCCTCAGGCCCTGTGCCCTGGTGGCAGCCCCCAGCACCAGGACCTC
GCTGGGCAGCTGGTGGTACATGAACTCTTTTCCAGTGTCCTTCAGGAGATCTGTGATGAGGTGAACCTGCCGCTG
CTCACCCTGAGCCAGCCCCTGCTGTTGGGCATCGCCCGAAATGAGACCAGTGCTGGCCGAGCCAGTGCCGAGTTC
TATGTCCAGTGCAGCCTGACTTCTGAGCAGGTGAGGAAGCACTACCTGAGTGGGGGACCCGAGGCCCACGAGTCT
ACAGGAATCTTCTTTGTGGAGACACAGAACGTGCAGAGATTGCTCGAGACGGAGATGTGGGCTGAACTCTGCCCC
TCGGCCAAAGGCGCCATCATCCTCTACAACCGGGTTCAGGGAAGTCCCACTGGAGCGGCCCTAGGGTCCCCAGCC
CTACTCCCGCCGCTCTGAAAATAATAAACGACTTTATTCTTGG

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FIGURE 101

GGCACGTCGGCCCTGCCTCCCGGACCACCCTGCGGGGCGCACCAGCGATCTGGGGTGCGGGGCTCGGCCTCCCTG
CGCTCCTGGCTGACCGTGTGACCTTGGGACCGAGACGTGCAGCTGTCCAAGGCTCTGTCCTATGCCCTGCGCCAT
GGGGCCTTGAAGCTGGGGCTTCCCATGGGAGCTGATGGCTTCGTGCCCCTGGGCACCCTCCTGCAGTTGCCCCAG
TTCCGCGGCTTCTCTGCTGAAGATGTGCAGCGCGTGGTGGACACCAATAGGAAGCAGCGGTTCGCCCTGCAGCTG
GGGGATCCCAGCACTGGCCTTCTCATCCGGGCCAACCAGGGCCATTCCCTGCAGGTACCTAAGTTGGAGCTGATG
CCCCTGGAGACACCGCAGGCCCTGCCCCCGATGCTAGTCCATGGTACATTCTGGAAGCACTGGCCATCCATCCTA
CTCAAAGGCCTGTCCTGCCAGGGAAGGACGCACATTCACCTGGCCCCAGGACTGCCTGGAGACCCCGGTATCATC
AGTGGCATGCGGTCCCATTGTGAAATAGCTGTGTTCATCGATGGACCCCTGGCTCTGGCAGATGGAATACCCTTC
TTCCGCTCTGCCAATGGGGTGATTCTGACTCCAGGGAATACTGATGGCTTCCTCCTTCCCAAGTACTTCAAGGAG
GCCCTGCAGCTACGCCCTACCCGAAAGCCCCTTTCCTTGGCTGGTGATGAAGAGACAGAGTGTCAGAGTAGCCCC
AAGCACAGCTCCAGAGAAAGGAGGAGGATCCAACAATAAAATATTAATTTATAAAAAAGAAATTTTAAAAAGTAA
CAAGAAAGAACTCGTTTGAAACCATGTTTCATCATCCTGT

FIGURE 102

AGACAGACCCCGTGCGGCTGACACAGCTGTATGAGCAGGCCCGGTGGGACCTGCTGCTGGAGGAGATTGACTGCA
CCGAGGAGGAGATGATGGTGTTTGCCGCCCTGCAGTACCACATCAACAAGCTGTCCCAGAGCGGGGAGGTGGGGG
AGCCGGCTGGCACAGACCCAGGGCTGGACGACCTGGATGTGGCCCTGAGCAACCTGGAGGTGAAGCTGGAGGGGT
CGGCGCCCACAGATGTGCTGGACAGCCTCACCACCATCCCAGAGCTCAAGGACCATCTCCGAATCTTTCGGCCCC
GGAAGCTGACCCTGAAGGGCTACCGCCAACACTGGGTGGTGTTCAAGGAGACCACACTGTCCTACTACAAGAGCC
AGGACGAGGCCCCTGGGGACCCCATTCAGCAGCTCAACCTCAAGGGCTGTGAGGTGGTTCCCGATGTTAACGTCT
CCGGCCAGAAGTTCTGCATTAAACTCCTAGTGCCCTCCCCTGAGGGC**ATG**AGTGAGATCTACCTGCGGTGCCAGG
ATGAGCAGCAGTATGCCCGCTGGATGGCTGGCTGCCGCCTGGCCTCCAAAGGCCGCACCATGGCCGACAGCAGCT
ACACCAGCGAGGTGCAGGCCATCCTGGCCTTCCTCAGCCTGCAGCGCACGGGCAGTGGGGGCCCGGGCAACCACC
CCCACGGCCCTGATGCCTCTGCCGAGGGCCTCAACCCCTACGGCCTCGTTGCCCCCCGTTTCCAGCGAAAGTTCA
AGGCCAAGCAGCTCACCCCACGGATCCTGGAAGCCCACCAGAATGTGGCCCAGTTGTCGCTGGCAGAGGCCCAGC
TGCGCTTCATCCAGGCCTGGCAGTCCCTGCCCGACTTCGGCATCTCCTATGTCATGGTCAGGTTCAAGGGCAGCA
GGAAAGACGAGATCCTGGGCATCGCCAACAACCGACTGATCCGCATCGACTTGGCCGTGGGCGACGTGGTCAAGA
CCTGGCGTTTCAGCAACATGCGCCAGTGGAATGTCAACTGGGACATCCGGCAGGTGGCCATCGAGTTTGATGAAC
ACATCAATGTGGCCTTCAGCTGCGTGTCTGCCAGCTGCCGAATTGTACACGAGTATATCGGGGGCTACATTTTCC
TGTCGACGCGGGAGCGGGCCCGTGGGGAGGAGCTGGATGAAGACCTCTTCCTGCAGCTCACCGGGGGCCATGAGG
CCTTC**TGA**GGGCTGTCTGATTGCCCCTGCCCTGCTCACCACCTGTCACAGCCACTCCCAAGCCCACACCCACAGG
GGCTCACTGCCCCACACCCGCTCCAGGCAGGCACCCAGCTGGGCATTTCACCTGCTGTCACTGACTTTGTGCAGG
CCAAGGACCTGGCAGGGCCAGACGCTGTACCATCACCCAGGCCAAGGATGGGGGTGGGGGTCCCTGAGCTCATGT
GGTGCCCCCTTTCCTTGTCTGAGTGGCTGAGGCTGATACCCCTGACCTATCTGCAGTCCCCCAGCACACAAGGAA
GACCAGATGTAGCTACAGGATGATGAAACATGGTTTCAAACGAGTTCTTTCTTGTTACTTTTTAAAATTTCTTTT
TTATAAATTAATATTTTATTGTTGG

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FIGURE 103

GGCTACGGCTGACCGTTTTTTGTGGTGTACTCCGTGCCATCATGTCCGTCCTGACGCCGCTGCTGCTGCGGGGCT
TGACAGGCTCGGCCCGGCGGCTCCCAGTGCCGCGCGCCAAGATCCATTCGTTGCCGCCGGAGGGGAAGCTTGGGA
TCATGGAATTGGCCGTTGGGCTTACCTCCTGCTTCGTGACCTTCCTCCTGCCAGCGGGCTGGATCCTGTCACACC
TGGAGACCTACAGGAGGCCAGAGTGAAGGGGTCCGTTCTGTCCCTCACACTGTGACCTGACCAGCCCCACCGGCC
CATCCTGGTCATGTTACTGCATTTGTGGCCGGCCTCCCCTGGATCATGTCATTCAATTCCAGTCACCTCTTCTGC
AATCATGACCTCTTGATGTCTCCATGGTGACCTCCTTGGGGGTCACTGACCCTGCTTGGTGGGGTCCCCCTTGTA
ACAATAAAATCTATTTAAACTTT

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FIGURE 104

GGTTGAATGTCTCCATTGAATGTAAGCGAGTGTCTGGACTGGAGCCAGCCACCGTGGATTGGGCCTTCGACCTGA
CCAAAACGAATATGCAAACCATGTATGAGCAGAGCGAGTGGGGCTGGAAGGACCGAGAGAAACGGGAGGAAATGA
CAGATGACCGAGCCTGGTACCTCATCGCGTGGGAAAACAGCTCCGTCCCTGTTGCCTTTTCTCACTTCCGGTTTG
ACGTGGAGTGTGGGGATGAAGTCCTGTACTGCTATGAAGTGCAGTTGGAAAGCAAGGTGCGGCGGAAAGGCCTGG
GGAAGTTCCTCATACAGATCCTGCAGCTCATGGCCAACAGCACACAGATGAAGAAGGTTATGTTAACAGTATTTA
AACACAATCATGGTGCCTACCAGTTCTTCAGAGAAGCGTTGCAGATTTGAAATTGATGACTCTTCCCCCAGCATG
TCCGGTTGCTGTGGGGAGGATTGCTCCTATGAGATCCTGAGCCGGAGGACCAAGTTTGGGGACAGCCATCACTCC
CACGCGGGTGGGCACTGTGGTGGCTGCTGCCACTGAACTCTCAGAGCCACTTTCAAGTCACAATGCTCTCTCCTA
AGGCCTTTCCTCTTTCCTGGTCTCACTGTTCACCGGGTGTCCTCAGAGCTGTGGCCTCCCCAGCCCTGCACGTGC
CAGGCTGCGCCCTGAGAGCACAGAACCCTGGGGAGAAGTGGTATCAGCTGCTCCTCCTCTCCTAGGAGACCAGAG
TGCTAGAAGGGAATGAAAGGGAGAGGGAAGAGTAGGTGGGGCCGGGCAGTGAAGCTCATCCTCCACAGTGGCTGC
CTCCTCATTTGGCTCCTGGGGCCTGCAGTGGAGGTTCTCGCACCTCTGCAGCCCCTAGATTCCTGGCAACCTCCC
CTCCCCTGACACATACACACTTGGACAAATGGAATGTTTATGTCCACCTTTATGAAAGTTCTGGAGTCCTGGGTC
TGGGGTTTGCTGGTCCCCAAAGAGGAACACACTGGGTGTAAGATCTGGGTGTAGAGGGCGGCTTCAGAGAGACTC
ACGCTTGCGCAGTTGGAATTGCTGTTAACGGAGACTGGGAAGATCTTTTGTGCCAAGATGCAGGGAAATGAAGAA
AGCTCTTTCCAGCTGTTTTTATGGATTCATGGAGTGGGCTCATGTTGGGACCAGCTGACTCTGGGAGGAAGACTG
CCTCTCCATCGCTGTCAGAGAGCCTGAAAGGACCAACAATGAGGTGTTCTTGGGACCCGCCATGGGGATGATTGC
TTCTCTAGGCTCCTGGATGTTGCTGCATTCTAAGCTTAACCTCCTGGTCTCATGGCAGTGACTTGAGCTTTTGAT
TCATAGAAGAAAGCCAGAGGTTCTGCTTGTTCTTGTCTGCCAGCCCTCGTCGTTCTTTCTCCTCTGCCTCTCACC
TCTACCCCAAATACCTCTGTTCTTAGTCTCAAGGGGAGAATAACATCAGGGAGCCCCTCATCTTCCCCAGAAGGA
CTTCTCGTTCCTCATGTAGTTAACTCCATTGATTTTCCTATCTTGGTGCTGATAGCTCTCTAAGGGTAGGGCACA
CCTCCCCACAGCCACCCTCCCTCTTCAGAGAGCCCCCAGCCAGCAGCAGGCCCCTCTGCCTGCACTCCTCAGGCT
TGCCCCTCGCTGCCTCAGTGAGGCACTAGTGCCACTGCCGTGGCCCAGCCGGGCCATAGCTCAGGCTGCAGCAGA
AATGCCTCTCAGTGGCCAACAGTTGCTTTTCTCTCTGGTGTCACCCTGTGGCAACAGGCTGGAGCAGGGGAAGGA
GAAAGCCTTCCTCTTCTCTCATAGGATAGAAAGGCAGGCTCAGAACTAATGCTCATCCTGATCTCTAGGCCTTGT
TCCTCTTCCAGGGAAGAAAAGCCAAATCCTTATCAAGGAAAAAGCACCTAACAGCTCCCTTTGGATATCCCTGAG
CTCTGCTGTGGGGAGTATCATAAAGGTTCTAGCCTTCGTGAAGTTGTTCTCGTGGAGGTCTGTTGGTCCCTCTGA
CCTCAGCATCTGCTCACATCCCACCCTCTGCCCAACTCTGGCAGTCTCTCCTGGCAGATCTCCCCAGAGTGGTCC
TTGCTTCTCACCTGGATTCCTGCTTGTGCAGGAGCCTGTGTACACAGGGCCTCCCTCACCCAGCCTGGCCCCTCT
GCTGAGCACTTTGCGCTGCTCTTGATGGGCAGCAGTGGGACTGGGAACTCCTTAGAGAGGGCCTTGCAGCTTTAC
ACTGGAATAAGTCTGCCTCTGCCTCTGCCTCACCCTGCTGGCTCCTGGTGGGTTTCATCCCAGGCAGAGTTGACA
TTGCTGGAGGGGTTTGGTGGACTCCTAAGAATCATGAAACCACAGGAGCATGTTTAGGAAGAGATTTGTCTCTGG
TCCCTGTCTCTGAAAGGACACAGATGCTAAATATTTATTGTCTTAGATCATGGATTCCTGATACCTCTCACTCAA
GGGGACCAAAAGGGACCCCCCCGTGTTCATCCCTTGTAAGGTGAGTTCAGTCTACGTTGTCTCTTTCCAGTCACT
GGATACGTGGCACCAACTGGTCAATGGGTGCTTGGTGCCATACCCTGCTCACCCTAGTCTCTGCAGGCCATGTCC
TGAAGGGTTCCTCAGGAGGTCGGGACTAGGGTGGGAGAGGCACTATCTGAGACCTGCAATCACTCTTGTTGGTCT
TGAGCCCATTCATTTCCAAAACATCCATCTTTCTCCACTTTCCCCAGGTCTTGGTTTTGAGAAACAGCAGGCATG
GCTGAGTGCGGTGGCTTACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCGGGTCACCTGAGGTCAGGA
GTTCAAGACCAGCCTGGTCAACATGGCAAAAGCCCATCTCTACTAAAAAATACAAAAATCACCCAGGCGTGGTTG
TGGCCTGTGATCCCAGCTACTCGGGAGGCTGAGGCAGGAGACTCGCTTGAACCCAGCAGGTGGAGGTTGTGGTGA
GCTGAGATCACGCCATTGCACTCCAGCCTAGGCGACCGAGTGAGACTCCATCTC

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FIGURE 105

AGGTGTTAACTGTCTGGCCTATGATGAAGCCATC**ATG**GCTCAGCAGGACCGAATTCAGCAAGAGATTGCTGTGCA
GAACCCTCTGGTGTCAGAGCGGCTGGAGCTCTCGGTCCTATACAAGGAGTATGCTGAAGATGACAACATCTATCA
ACAGAAGATCAAGGACCTCCACAAAAAGTACTCGTACATCCGCAAGACCAGGCCTGACGGCAACTGTTTCTATCG
GGCTTTCGGATTCTCCCACTTGGAGGCACTGCTGGATGACAGCAAGGAGTTGCAGCGGTTCAAGGCTGTGTCTGC
CAAGAGCAAGGAAGACCTGGTGTCCCAGGGCTTCACTGAATTCACAATTGAGGATTTCCACAACACGTTCATGGA
CCTGATTGAGCAGGTGGAGAAGCAGACCTCTGTCGCCGACCTGCTGGCCTCCTTCAATGACCAGAGCACCTCCGA
CTACCTTGTGGTCTACCTGCGGCTGCTCACCTCGGGCTACCTGCAGCGCGAGAGCAAGTTCTTCGAGCACTTCAT
CGAGGGTGGACGGACTGTCAAGGAGTTCTGCCAGCAGGAGGTGGAGCCCATGTGCAAGGAGAGCGACCACATCCA
CATCATTGCGCTGGCCCAGGCCCTCAGCGTGTCCATCCAGGTGGAGTACATGGACCGCGGCGAGGGCGGCACCAC
CAATCCGCACATCTTCCCTGAGGGCTCCGAGCCCAAGGTCTACCTTCTCTACCGGCCTGGACACTACGATATCCT
CTACAAA**TAG**GGCTGGCTCCAGCCCGCTGCTGCCCTGCTGCCCCCCTCTGCCAGGCGCTAGACATGTACAGAGGT
TTTTCTGTGGTTGTAAATGGTCCTATTTCACCCCCTTCTTCCTGTCACATGACCCCCCCCCATGTTTTATTAAAG
GGGGTGCTGGTGGTGAGCCGTGTGTGCGTGTCCCTGCTCTGCTGCCCGCCTGGCTGCTCTGTCTGCTGCCCCCTC
CCCCCAGGTGGGTCCCCCTGCTTTTCACCTATCTACTCCTGAGCTTCCCCAACAGGAGCAGGTTTGAGGGGCCAG
GCCTCTTGGAGGCCCCTCCTGCTTCGTTGGGTTCTGCTTCCTTCCCTTCTTAGCTGGCTCAGGGGCTTCTATGGG
ATCCTGGAAGTTCCTTAGGGACTTGCCCAGGGTCCCAGGGCCACCCACACTTCATCTGCTCCCTCATAGGCCCCA
CCTCCACGTCCCGGCTGGGCCCCAGACCCCAGCTTCCTGCCCTCCACCGGGAGTCTGCATGGTTGGGAGTCCTGG
GTGGAGGGGCCTTTGTGAGGCTGGACCCGGCTCAGGGCAGGTGGAGGAGCTGGGCCTCCCACAGGGTGCCCGGGC
AGTGCCATCCTGGTGGGGGAGGGCAGCCTTCAAACGTGTGGGGTCTACAGTCCTCAGGTCTAGGCAGGGCTGCCG
GTTCTCCACCTCCCCATCCGCCCCAGGCCCCCTGCCTGTGCCTGCCTTGCACCCCCTCTGCTTGGGCCACGGTGT
CTCTGCATTGCCTGCCTTTTTGCCTTCACCTCTTTTCTTCCCCGCCCCCTGCACATTCGGGGTCTCAGCCCCCAG
GCTGTGAGCTCCTTGGGGGCAGGCCCTCAATAAATGTGAACTGCTGCTGCCGCC

FIGURE 106

CCTTCAGCATAAAAGCTGATCCACAAACAAGAGGAGCACCAGACCTCCTCTTGGCTTCGAGATGGCTTCGCCACA
CCAAGAGCCCAAACCTGGAGACCTGATTGAGATTTTCCGCCTTGGCTATGAGCACTGGGCCCTGTATATAGGAGA
TGGCTACGTGATCCATCTGGCTCCTCCAAGTGAGTACCCCGGGGCTGGCTCCTCCAGTGTCTTCTCAGTCCTGAG
CAACAGTGCAGAGGTGAAACGGGAGCGCCTGGAAGATGTGGTGGGAGGCTGTTGCTATCGGGTCAACAACAGCTT
GGACCATGAGTACCAACCACGGCCCGTGGAGGTGATCATCAGTTCTGCGAAGGAGATGGTTGGTCAGAAGATGAA
GTACAGTATTGTGAGCAGGAACTGTGAGCACTTTGTCACCCAGCTGAGATATGGCAAGTCCCGCTGTAAACAGGT
GGAAAAGGCCAAGGTTGAAGTTGGTGTGGCCACGGCGCTTGGAATCCTGGTTGTTGCTGGATGCTCTTTTGCGAT
TAGGAGATACCAAAAAAAAGCGACAGCCTGAAGCAGCCACAAAATCCTGTGTTAGAAGCAGCTGTGGGGGTCCCA
GTGGAGATGAGCCTCCCCCATGCCTCCAGCAGCCTGACCCTCGTGCCCTGTCTCAGGCGTTCTCTAGATCCTTTC
CTCTGTTTCCCTCTCTCGCTGGCAAAAGTATGATCTAATTGAAACAAGACTGAAGGATCAATAAACAGCCATCTG
CCCCTTC

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FIGURE 107

AGAGTGGGCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGTGCAGCC**ATG**GCCCCAATCAAGGTGGGAGATGCC
ATCCCAGCAGTGGAGGTGTTTGAAGGGGAGCCAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAG
GGTGTGCTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCTGCCAGGGTTTGTGGAGCAG
GCTGAGGCTCTGAAGGCCAAGGGAGTCCAGGTGGTGGCCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAG
TGGGGCCGAGCCCACAAGGCGGAAGGCAAGGTTCGGCTCCTGGCTGATCCCACTGGGGCCTTTGGGAAGGAGACA
GACTTATTACTAGATGATTCGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAG
GATGGCATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAGCCTGGCACCCAATATCATC
TCACAGCTC**TGA**GGCCCTGGGCCAGATTACTTCCTCCACCCCTCCCTATCTCACCTGCCCAGCCCTGTGCTGGGG
CCCTGCAATTGGAATGTTGGCCAGATTTCTGCAATAAACACTTGTGGTTTGCGG

FIGURE 108

GGAGCCGCCATGTAACCGGCGCCGCCCGGAGCCCGAGCCGCGCGGGCCCCAGCGACCCGCCCGCCATGGGGGACG
AGGACGACGATGAGAGCTGCGCCGTGGAGCTGCGGATCACAGAAGCCAACCTGACCGGGCACGAGGAGAAGGTGA
GCGTGGAGAACTTCGAGCTGCTCAAGGTGCTGGGCACGGGAGCCTACGGCAAGGTGTTCCTGGTGCGGAAGGCGG
GCGGGCACGACGCGGGGAAGCTGTACGCCATGAAGGTGCTGCGCAAGGCGGCGCTGGTGCAGCGCGCCAAGACGC
AAGAGCACACGCGCACCGAGCGCTCGGTGCTGGAGCTGGTGCGCCAGGCGCCCTTCCTGGTCACGCTGCACTACG
CTTTCCAGACGGATGCCAAGCTGCACCTCATCCTGGACTATGTGAGCGGCGGGGAGATGTTCACCCACCTCTACC
AGCGCCAGTACTTCAAGGAGGCTGAGGTGCGCGTGTATGGGGGTGAGATCGTGCTGGCCCTGGAACACCTGCACA
AGCTCGGCATCATTTACCGAGACCTGAAACTGGAGAATGTGCTGCTGGACTCCGAGGGCCACATTGTCCTCACGG
ACTTCGGGCTGAGCAAGGAGTTCCTGACGGAGGAGAAAGAGCGGACCTTCTCCTTCTGTGGCACCATCGAGTACA
TGGCCCCCGAAATCATCCGTAGCAAGACGGGGCATGGCAAGGCTGTGGACTGGTGGAGCCTGGGCATCTTGCTCT
TCGAGCTGCTGACGGGGGCCTCGCCCTTCACCCTGGAGGGCGAGAGGAACACGCAGGCTGAGGTGTCTCGACGGA
TCCTGAAGTGCTCCCCTCCCTTCCCCCCTCGGATCGGGCCCGTGGCGCAGGACCTGCTGCAGCGGCTGCTTTGTA
AGGATCCTAAGAAGCGATTGGGCGCGGGGCCCCAGGGGGCACAAGAAGTCCGGAACCATCCCTTCTTCCAGGGCC
TCGATTGGGTGGCTCTGGCTGCCAGGAAGATTCCAGCCCCATTCCGGCCCCAAATCCGCTCAGAGCTGGATGTGG
GCAACTTTGCGGAGGAATTCACTCGGCTGGAGCCTGTCTACTCACCCCCTGGCAGCCCCCCACCTGGGGACCCCC
GAATCTTTCAGGGATACTCCTTTGTGGCACCCTCCATTCTCTTTGACCACAACAACGCGGTGATGACCGATGGGC
TGGAAGCGCCTGGTGCTGGAGACCGGCCAGGTCGGGCAGCGGTGGCCAGGAGCGCTATGATGCAGGACTCGCCCT
TCTTCCAGCAGTACGAGCTGGACCTGCGGGAGCCTGCGCTGGGCCAGGGCAGCTTTTCTGTGTGTCGCCGCTGCC
GCCAGCGCCAGAGCGGCCAGGAGTTCGCAGTCAAGATCCTCAGTCGCAGGCTGGAGGCGAACACGCAGCGCGAAG
TGGCTGCCCTGCGCCTGTGCCAGTCACACCCCAACGTGGTGAATCTGCACGAGGTGCATCACGACCAGCTGCACA
CGTACCTGGTCCTGGAGCTGCTGCGGGGCGGGGAGCTGCTGGAGCACATCCGCAAGAAGCGGCACTTCAGCGAGT
CGGAAGCAAGCCAGATCCTGCGCAGCCTCGTGTCGGCCGTGAGCTTCATGCACGAGGAGGCGGGCGTGGTGCACC
GCGACCTCAAGCCGGAGAACATCCTGTACGCCGACGACACGCCCGGGGCCCCGGTGAAAATCATCGACTTCGGGT
TCGCGCGGTTGCGGCCGCAGAGTCCCGGGGTGCCCATGCAGACGCCCTGCTTCACGCTGCAGTACGCTGCCCCCG
AGCTGCTGGCGCAGCAGGGCTACGACGAGTCCTGCGACCTCTGGAGCCTGGGCGTCATTCTGTACATGATGCTGT
CGGGGCAGGTCCCCTTCCAGGGGGCCTCTGGCCAGGGCGGGCAGAGCCAGGCGGCCGAGATCATGTGCAAAATCC
GCGAGGGGCGCTTCTCCCTTGACGGGGAGGCCTGGCAGGGTGTATCCGAGGAAGCCAAGGAGCTGGTCCGAGGGC
TCCTGACCGTGGACCCCGCCAAGCGGCTGAAGCTCGAGGGACTGCGGGGCAGCTCGTGGCTGCAGGACGGCAGCG
CGCGCTCCTCGCCCCCGCTCCGGACGCCCGACGTGCTCGAGTCCTCTGGGCCCGCAGTGCGCTCGGGTCTCAACG
CCACCTTCATGGCATTCAACCGGGGCAAGCGGGAGGGCTTCTTCCTGAAGAGCGTGGAGAATGCACCCCTGGCCA
AGCGGCGGAAGCAGAAGCTGCGGAGCGCCACCGCCTCCCGCCGGGGCTCCCCTGCACCAGCCAACCCGGGCCGAG
CCCCCGTCGCCTCCAAAGGGGCCCCCCGCCGAGCCAACGGCCCCCTGCCCCCCTCCTAATCCCCACCACTGTGAC
CCCCTTCCCTCATAGGGGCTGTGACCTGGGAGCCCGGCTCACTCCCGGAGGCCTCTGCCTGCGGCTGACCTGATC
CCCAAGGGACTGTCCTTTCCTCTCCTACCCCACCCCACTCCCAGACAGAGCAGAAGTATTTTTATAAGCAGAGAA
TTTTTTATGTCTTACCAGATAGAGTTGCAGGGAAGGGGGGGCCTGCTGGGGAGTGGGGTTTGGGGGGCCCTCTCC
CAGGACACTGCCTCTTCTGGGCAGAAGGCCCCTCCAGGGGGACTGCTCCAACAGGAAAGAGCCCCTCCCCCACTT
CTAAGCACTGAGTTAGGAGTGCTAACTCCTAAACTGGGACCCCCTACCCTGTTCTCCCCTGAGGCCCCGTTCCTG
GGAGGGGCACCCCTCAACTGTCACTTTATGGACTGTCTGTGCAATTACGTCCACCAAAGACCCGTGTTGGGGGTA
CTGAAGGAGAGGCCCTGGGGGACCCTCTGAAGCATTTCTGCCTCACTTTATGTCATCTGCTTCTCCCCTGTTGGG
GCTAAGGAAGGAGATAGGTGGCTCCTAAAAGAGGAGGCCATCTTCTCACCCACCCCTTCCTCTTTGGCACAGCTA
CTCCTGGCTGGGGGTGGGGCCTTGGGGGTCTGGGCTGGGCATCCATGGTCACTGCCTCAGCCCAGCCAGGCTGTG
CCTTTGACTTTAAAATAAAAGTCCACCCAGTGCTGTGTGTGGC

FIGURE 109A

AAGGGAGCCCCGCTCAGCGCGGGGAGCGCCCGGCCCCCTCCCGCCCCATGCGCCCGCGGCTCTGAAGCCTGAGCG
GGGGCCGGGGGCCGGGCGGGGCCGGGGCCGCCGTAGGCATGGCGTCCGGGAGCCGGTGGCGGCCGACACCGCCGC
CGCTGCTGTTGCTGCTGCTGCTGGCGCTGGCGGCGCGCGCGGACGGCCTGGAGTTCGGCGGCGGCCCCGGGCAGT
GGGCTCGCTACGCGCGCTGGGCGGGCGCGGCGAGCAGCGGCGAGCTCAGCTTCAGCCTGCGCACCAACGCCACGC
GCGCGCTGCTGCTCTACCTGGACGACGGCGGCGACTGCGACTTCCTGGAGCTGCTGCTGGTGGACGGCCGCCTGC
GGCTGCGCTTCACGCTTTCGTGCGCCGAGCCGGCCACGCTGCAGCTGGACACGCCGGTGGCCGACGACCGCTGGC
ACATGGTGCTGCTGACCCGCGACGCGCGCCGCACGGCGCTGGCGGTGGACGGCGAGGCCCGCGCCGCCGAGGTGC
GCTCCAAGCGGCGCGAGATGCAGGTGGCCAGCGACCTGTTCGTGGGCGGCATCCCGCCCGACGTGCGCCTCTCGG
CGCTTACGCTGAGCACCGTCAAGTACGAGCCGCCCTTCCGCGGCCTCTTGGCCAACCTGAAGCTGGGCGAGCGGC
CCCCCGCGCTGCTGGGCAGCCAGGGCCTGCGCGGCGCCACCGCCGACCCGCTGTGCGCGCCCGCGCGCAACCCCT
GCGCCAACGGCGGCCTCTGCACCGTGCTGGCCCCCGGCGAGGTGGGCTGCGACTGCAGCCACACGGGCTTCGGCG
GCAAGTTCTGCAGCGAAGAGGAGCACCCCATGGAAGGTCCGGCTCACCTGACGTTAAACAGCGAAGTAGGGTCCT
TACTGTTCTCCGAGGGGGGGGCCGGGAGAGGAGGAGCCGGCGATGTGCACCAGCCAACAAAAGGCAAGGAGGAGT
TTGTGGCGACCTTCAAAGGCAATGAGTTCTTCTGCTACGACCTGTCACACAACCCCATCCAGAGCAGCACTGATG
AGATCACACTGGCCTTCCGCACCCTGCAACGCAACGGCCTGATGCTGCATACAGGCAAGTCGGCCGACTACGTCA
ACCTGTCCCTCAAGTCTGGGGCTGTCTGGCTGGTCATCAACCTAGGCTCAGGTGCCTTCGAGGCCCTTGTGGAAC
CCGTCAATGGCAAGTTCAACGACAACGCCTGGCACGACGTCCGGGTCACCCGAAACCTGCGCCAGCACGCAGGGA
TTGGACACGCTATGGTAAACAAACTGCATTATCTGGTGACCATCTCGGTGGACGGGATCCTGACCACCACAGGCT
ACACGCAGGAGGATTACACCATGCTGGGCTCTGATGACTTCTTCTACATTGGGGGCAGCCCCAACACAGCTGACC
TGCCGGGCTCGCCCGTCAGCAACAACTTCATGGGCTGCCTCAAGGACGTGGTCTATAAGAACAATGACTTCAAAT
TGGAACTATCCCGCCTGGCAAAGGAAGGGGACCCCAAGATGAAGCTGCAGGGGGACTTGTCATTCCGCTGTGAGG
ATGTGGCTGCCCTGGACCCTGTGACCTTTGAGAGTCCCGAGGCCTTTGTGGCGCTGCCCCGCTGGAGCGCTAAGC
GCACTGGCTCCATCTCCCTAGACTTCCGCACCACCGAGCCCAATGGGCTGCTGCTCTTCAGCCAGGGCCGGCGGG
CTGGGGGTGGAGCTGGCAGCCACAGCTCTGCTCAGCGGGCCGACTACTTTGCCATGGAGCTATTGGACGGCCACC
TCTATCTTCTGCTGGACATGGGATCTGGGGGCATCAAGCTGCGGGCATCCAGCCGCAAGGTCAATGATGGCGAGT
GGTGTCACGTGGACTTCCAGAGGGATGGGCGAAAAGGCTCCATCTCAGTGAATAGTCGCAGCACGCCGTTCTTGG
CCACTGGAGACAGCGAGATTCTGGACCTGGAGAGTGAGCTGTACCTGGGCGGTCTCCCTGAGGGGGGCCGGGTGG
ACCTGCCCCTGCCCCCAGAGGTGTGGACAGCAGCACTCCGGGCAGGCTACGTGGGCTGTGTGCGGGACCTCTTCA
TAGATGGGCGTAGCCGAGACCTCCGGGGCCTGGCTGAGGCTCAGGGGGCTGTGGGCGTTGCCCCCTTTTGCTCCC
GGGAGACGCTGAAGCAGTGTGCATCTGCCCCCTGTCGCAATGGGGGCGTCTGTCGAGAAGGCTGGAACCGCTTCA
TCTGTGACTGCATCGGGACCGGCTTTCTTGGGCGGGTCTGTGAGAGAGAGGCCACGGTCCTGAGCTACGATGGCT
CCATGTACATGAAGATCATGCTGCCTAACGCCATGCACACGGAGGCAGAGGATGTGTCCCTGCGTTTCATGTCCC
AGCGGGCCTACGGACTCATGATGGCCACCACTTCCAGGGAGTCTGCCGACACCCTACGCCTGGAGCTGGATGGGG
GGCAGATGAAGCTCACTGTCAACCTCGACTGCCTGCGCGTCGGCTGCGCACCCAGTAAAGGCCCCGAAACGCTGT
TTGCGGGGCACAAGCTCAATGACAATGAGTGGCACACGGTGAGGGTGGTCCGGCGTGGCAAGAGCCTGCAGCTGT
CTGTGGACAACGTGACTGTGGAGGGACAGATGGCAGGAGCCCATATGCGGCTGGAGTTCCACAACATTGAGACGG
GCATCATGACGGAGCGGCGGTTTATCTCCGTGGTGCCCTCCAACTTCATCGGGCATCTGAGTGGGCTCGTGTTCA
ATGGCCAGCCCTACATGGACCAGTGCAAGGATGGTGACATCACCTACTGTGAGCTCAATGCTCGCTTTGGCCTGC
GTGCCATCGTGGCCGATCCCGTCACCTTCAAGAGTCGCAGCAGCTACCTGGCACTCGCCACGCTCCAAGCCTATG
CTTCCATGCACCTCTTCTTCCAGTTCAAGACCACGGCCCCTGATGGGCTTCTTCTGTTCAACTCGGGCAACGGCA
ATGACTTCATTGTCATCGAGCTGGTCAAGGGGTACATCCACTACGTGTTTGACCTGGGGAATGGCCCGTCCTTGA
TGAAGGGGAACTCAGACAAACCAGTCAATGACAACCAGTGGCACAACGTGGTGGTGTCCAGGGACCCAGGCAACG
TGCACACGCTCAAGATTGACTCCCGCACTGTCACGCAGCACTCCAATGGCGCCCGAAACCTCGATCTCAAAGGGG
AGTTGTACATTGGCGGTCTGAGCAAGAATATGTTCAGCAACCTGCCCAAGCTGGTGGCCTCCCGGGATGGCTTTC
AGGGCTGCCTGGCCTCAGTGGACCTCAACGGACGTCTCCCAGACCTCATCGCCGACGCCCTGCACCGCATTGGGC
AGGTGGAGAGGGGCTGTGATGGCCCCAGCACCACCTGCACTGAAGAGTCCTGTGCCAACCAGGGCGTCTGCTTGC
AGCAGTGGGATGGCTTCACCTGCGACTGCACCATGACTTCCTATGGAGGCCCTGTCTGCAATGATCCCGGGACCA
CATACATCTTTGGGAAGGGGGGAGCGCTCATCACCTACACGTGGCCCCCCAATGACAGGCCCAGCACGAGGATGG

FIGURE 109B

ATCGCCTGGCCGTGGGCTTCAGCACCCACCAGCGGAGCGCTGTGCTGGTGCGGGTGGACAGCGCCTCCGGCCTTG
GAGACTACCTGCAGCTGCACATCGACCAGGGCACCGTGGGGGTGATCTTTAACGTGGGCACGGACGACATTACCA
TCGACGAGCCCAACGCCATAGTAAGCGACGGCAAATACCACGTGGTGCGCTTCACTCGAAGCGGCGGCAACGCCA
CCCTGCAGGTGGACAGCTGGCCGGTCAACGAGCGGTACCCGGCAGGAAACTTTGATAACGAGCGCCTGGCGATTG
CTAGACAGAGAATCCCCTACCGGCTTGGTCGAGTAGTAGATGAGTGGCTGCTCGACAAAGGCCGCCAGCTGACCA
TCTTCAACAGCCAGGCTGCCATCAAGATCGGGGGCCGGGATCAGGGCCGCCCCTTCCAGGGCCAGGTGTCCGGCC
TCTACTACAATGGGCTCAAGGTGCTGGCGCTGGCCGCCGAGAGCGACCCCAATGTGCGGACTGAGGGTCACCTGC
GCCTGGTGGGGGAGGGGCCGTCCGTGCTGCTCAGTGCGGAGACCACGGCCACCACCCTGCTGGCTGACATGGCCA
CCACCATCATGGAGACTACCACCACCATGGCCACTACCACCACGCGCCGGGGCCGCTCCCCCACACTGAGGGACA
GCACCACCCAGAACACAGATGACCTGCTGGTGGCCTCTGCTGAGTGTCCAAGCGATGATGAGGACCTGGAGGAGT
GTGAGCCCAGTACTGGAGGAGAGTTAATATTGCCCATTATCACGGAGGACTCCTTAGACCCCCCTCCCGTGGCCA
CCCGATCCCCCTTCGTGCCCCCGCCCCCTACCTTCTACCCCTTCCTCACGGGAGTGGGCGCCACCCAAGACACGC
TGCCCCCGCCCGCCGCGCGCCGCCCGCCCTCTGGGGGCCCGTGCCAGGCCGAGCGGGACGACAGCGACTGCGAGG
AGCCCATCGAGGCCTCGGGCTTCGCCTCCGGGGAGGTCTTTGACTCCAGCCTCCCCCCCACGGACGACGAGGACT
TTTACACCACCTTTCCCCTGGTCACGGACCGCACCACCCTCCTGTCACCCCGCAAACCCGCTCCCCGGCCCAACC
TCAGGACAGATGGGGCCACGGGCGCCCCTGGGGTGCTGTTTGCCCCCTCCGCCCCGGCCCCCAACCTGCCGGCGG
GCAAAATGAACCACCGAGACCCGCTTCAGCCCTTGCTGGAGAACCCGCCCTTGGGGCCCGGGGCCCCCACGTCCT
TTGAGCCGCGGAGGCCCCCTCCCCTGCGCCCCGGCGTGACCTCAGCCCCCGGCTTCCCCCATCTGCCCACAGCCA
ACCCCACAGGGCCTGGGGAGCGGGGCCCGCCGGGCGCAGTGGAGGTGATCCGGGAGTCCAGCAGCACCACGGGCA
TGGTGGTGGGCATTGTGGCGGCGGCGGCGCTCTGCATCCTCATCCTCCTCTACGCCATGTATAAGTACCGCAATC
GTGATGAGGGCTCCTACCAGGTGGACCAGAGCCGAAACTACATCAGTAACTCGGCCCAGAGCAATGGGGCGGTGG
TGAAAGAGAAGGCCCCGGCTGCCCCCAAGACGCCCAGCAAGGCCAAGAAGAACAAAGACAAGGAGTATTATGTCT
GAGCCCCCGGCACTGCGCCCCACTGCCAGCTGCCCCTCCTGGGAGGGCCCGGGAGGAGGGTGCCACCCTCTCCCT
GCCAGGGGCCTGGGGACCCTCTCCCTGGCTGCCTCAGGCTTCTCTTACGAAGAGGAAACGCAAAAAAAGAAAAGG
AAAAACCCCGTGCTCGCCCCCTTCCTCCTGCCGTCCACTGCGCGGCCTCGTCAGTCCCGGGGCTGACTGTCCCTC
TCAGCTCTGCGCCTGCCAGGCAGGGCACGTGCTCACAGCCCTGGGTTGATTTATTTTTTTAAGGGGGTAGTTTTA
TTTTGGTGGGGTTGGGTGGGAAGGAAGGCTGGGGGTTTTGTAAAGTGTCCACTGCTCGTCCTGTTAATTTTCCTC
AATTTTTCTTCTTCTTCCTTCTGTCCCTCCTGCCTTCCTTCTCTTCCCAAGCCCTCCAATCCCCATCCCAGGCTT
GCTGTGTCTCACTGTCCCCACCCTCCTTCCCTACTTCTTTTTTTGTGTGTCTGGTTTCTCCCTTCCTTTCCTCCC
TTTGGGTTTCCAGAGTCGGTGGGAGAAGGGCGGGAGGGTGGGCCCGAGTGGCCCAGTGGGTGGGTGGGGTGGGGT
GGGGCAAGTGCCCCAACTCCCCTCACCAGGAGAGGCACCTGCTTGGTGCCGCCCAGGGAAGGGGCTCAGGCCTGA
CGGAAGGCCTGTTCTGTGTGTGCCGCCGGGCGACGTGCATTGATGGGGAAGCTGCTGGAGGAGCAGGGGTGGGGG
GTGGGAGGGAGGGGAAAGGCAAATGCAGATATATATTACAGACAAATACTCTAGATTCCACGAGCAGCAGCCTGT
GGCACCCGCTGGGCGCGGGCAGCAGGGAAGAGGGAGCAAGGCATTGTCCACAGACTGCTGGGGTCACTTCTTTGC
CCACGGGCTCCCTGCTCCCCCAGTTTTTTTTCTCTCTTTGTTAACAAATGTGTCTGAGTCTTGGAAAACACCCCA
ACCCCGGAAATGTGTGGGAAAAAGAAAACAAAAACTTTCCAAATTCC

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FIGURE 110

CGATTTCATTCCTCGCTCCCCACAGGTCCCTCTCCCCAAAATATTCCCATCTTGTCCTAGCCCATCCCCCAGACT
ATCTCAAGGACCAGCTGTCCCCACGCCCCCGACCTCCACTAGGCCTGTGCCACCCGCTGCCTGCAGGAAGACGCC
CGGTCCCGGGCCGGGTTAGCCCC**ATG**GGAACGCAGCGCCTGTGTGGCCGCGGGACTCAAGGCTGGCCTGGCTCAA
GTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGCATTCTGGGGTGGACGAGCTGGGGGTTCGGTCCG
AGCCCGGTGGGAGGCTCCCGGAGCGCAGCCTGGGCCCAGCCCACCCCGCGCCGGCGGCCATGGCAGGCACCCTGG
ACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGAAGCCTTCGATGACTCCGGGAAGGTGC
GGGACCCGCAGCTGGTGCGCATGTTCCTCATGATGCACCCCTGGTACATCCCCTCCTCTCAGCTGGCGGCCAAGC
TGCTCCACATCTACCAACAATCCCGGAAGGACAACTCCAATTCCCTGCAGGTGAAAACGTGCCACCTGGTCAGGT
ACTGGATCTCCGCCTTCCCAGCGGAGTTTGACTTGAACCCGGAGTTGGCTGAGCAGATCAAGGAGCTGAAGGCTC
TGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGACAGCGTCCCTACCTACAAGTGGAAGC
GGCAGGTGACTCAGCGGAACCCTGTGGGACAGAAAAAGCGCAAGATGTCCCTGTTGTTTGACCACCTGGAGCCCA
TGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAAGATCCTGTTTCAGGACTATCACAGTT
TCGTGACTCATGGCTGCACTGTGGACAACCCCGTCCTGGAGCGGTTCATCTCCCTCTTCAACAGCGTCTCACAGT
GGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGCAGCGGGCCCTGGTCATCACACACTTTGTCCACGTGG
CGGAGAAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGTCGGGGGCCTGAGCCACAGCTCCATCT
CCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCTCTGGGAGGGTCTCACGGAACTAGTGA
CGGCGACAGGCAACTATGGCAACTACCGGCGTCGGCTGGCAGCCTGTGTGGGCTTCCGCTTCCCGATCCTGGGTG
TGCACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCTGGACCCAGCCCGGACCCGGCTCAACG
GGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGTGACCAGCCTGCGGCCACCAGTACAGG
CCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCAGACGGAGGATGAGCTGTACCAGCTGT
CCCTGCAGCGGGAGCCGCGCTCCAAGTCCTCGCCAACCAGCCCCACGAGTTGCACCCCACCACCCCGGCCCCCGG
TACTGGAGGAGTGGACCTCGGCTGCCAAACCCAAGCTGGATCAGGCCCTCGTGGTGGAGCACATCGAGAAGATGG
TGGAGTCTGTGTTCCGGAACTTTGACGTCGATGGGGATGGCCACATCTCACAGGAAGAATTCCAGATCATCCGTG
GGAACTTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGATGGCTGCATCAGCAGGGAGGAGATGG
TTTCCTATTTCCTGCGCTCCAGCTCTGTGTTGGGGGGGCGCATGGGCTTCGTACACAACTTCCAGGAGAGCAACT
CCTTGCGCCCCGTCGCCTGCCGCCACTGCAAAGCCCTGATCCTGGGCATCTACAAGCAGGGCCTCAAATGCCGAG
CCTGTGGAGTGAACTGCCACAAGCAGTGCAAGGATCGCCTGTCAGTTGAGTGTCGGCGCAGGGCCCAGAGTGTGA
GCCTGGAGGGGTCTGCACCCTCACCCTCACCCATGCACAGCCACCATCACCGCGCCTTCAGCTTCTCTCTGCCCC
GCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGTACAGACGGTGGAGGATGGGGTGTTTG
ACATCCACTTG**TAA**TAGATGCTGTGGTTGGATCAAGGACTCATTCCTGCCTTGGAGAAAATACTTCAACCAGAGC
AGGGAGCCTGGGGGTGTCGGGGCAGGAGGCTGGGGATGGGGGTGGGATATGAGGGTGGCATGCAGCTGAGGGCAG
GGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGTATTTTCCAGATGGAATAAAAAGGCCC
GTGTAATTAACCTTC

FIGURE 111

ACTTACTGTCATTAAACCAGTATGATGATGGAGTGGGGAATGCCTCAGTTTCTCCCACCGCCGAGGGCCTATAGG
ACTACAGTTCCCAGGGCCCCGTGCTGCAGGCTAGCGGCCTCCCGCCAATGCTGGCCAGTAACCTGAGCATCCCTC
TCCAAAAGGTCACTTCAGGGCTCCTTGAGGGACAGCAACAGGGGGAGCCTAGAGCTGCTCAGCTTCGGTGGGGGT
GGAGTGAGGGCTGTGGCCCTGCCTCACACAACCTCCCTCACACCACCCCTGCAATGCAGGGTCGTGGGCCCCTTT
CTCAAAGACATCCAGTGGCCTCTGCTAGTTGCACCTCTTCCGTCAGGGGACACTGACTTGGCTCCTGCACCACAG
CCTGCAGGGGGTCCTGGTTCCTTTTGCCACAACACATGGCCTCCCATCCTGGTTCAGCCACTGACAGACAGCTCC
CCAATCCAGCACTCTGCCTGCTCCTTCTTGTATCCAACCCTCCAAAAGGCAGGGACAAGGGACAGAAGACCATGT
GCAAGGCCTGGAGGAAGTGGGTCAGCACAGGCCTGTGAACAAGCCAGGCCAGTCTTGGCGGCCCAAGTGGAGCTC
ACCTCTCCCTCCCCTCTCCTCTCCTCCCCTTGCCCTCAAAATAGCTCCCTGAGCTGCCAGGCCAAGACCCTCCCA
TTGCAGGGGAGGCGGGGCGTGCTGCCCAGAGCCAGGCTTTAAATCCCCTTGAGGCTGGGGAGCTCCACTCCTTGG
CTGGAGGCAGTGCTGAGGCCGCCGTCCCCTCTACCATCAGTCCAGTCCGGCCCGCCCTCCTGCAGCC**ATG**TCCCG
GCCCCTGTCAGACCAAGAGAAAAGAAAGCAAATCAGTGTGCGTGGCCTGGCCGGCGTGGAGAACGTGACTGAGCT
GAAAAAGAACTTCAACCGGCACCTGCATTTCACACTCGTAAAGGACCGCAATGTGGCCACCCCACGAGACTACTA
CTTTGCTCTGGCCCATACCGTGCGCGACCACCTCGTGGGGCGCTGGATCCGCACGCAGCAGCACTACTATGAGAA
GGACCCCAAGAGGATCTACTACCTGTCTTTAGAGTTCTATATGGGACGGACGCTACAGAACACCATGGTGAACCT
GGCCTTAGAGAATGCCTGTGACGAGGCCACCTACCAGCTGGGCCTGGACATGGAGGAGCTGGAGGAAATTGAGGA
GGATGCGGGGCTGGGCAACGGGGGCCTGGGCCGGCTGGCAGCCTGCTTTCTTGACTCCATGGCAACACTGGGCCT
GGCCGCCTATGGCTACGGGATTCGCTATGAGTTTGGGATTTTTAACCAGAAGATCTCCGGGGGCTGGCAGATGGA
GGAGGCCGATGACTGGCTTCGCTACGGCAACCCCTGGGAGAAGGCCCGGCCCGAGTTCACGCTACCTGTGCACTT
CTACGGCCATGTGGAGCACACCAGCCAGGGTGCCAAGTGGGTGGACACACAGGTGGTACTGGCCATGCCCTACGA
TACGCCCGTGCCTGGCTATCGCAACAATGTTGTCAACACCATGCGCCTCTGGTCTGCCAAGGCTCCCAATGACTT
CAACCTCAAGGACTTCAATGTCGGTGGCTACATCCAGGCTGTGTTGGACCGAAACCTGGCGGAGAACATCTCTCG
TGTCCTGTACCCCAATGATAATTTCTTCGAAGGGAAGGAGCTGCGGCTGAAGCAGGAGTATTTCGTGGTGGCTGC
CACCCTCCAGGACATCATCCGTCGCTTCAAGTCTTCCAAGTTCGGCTGCCGTGATCCCGTGCGCACGAACTTCGA
TGCCTTCCCAGATAAGGTGGCCATCCAGCTCAATGACACCCACCCCTCCCTGGCCATCCCCGAGCTGATGAGGAT
CCTGGTGGACCTGGAACGGATGGACTGGGACAAGGCGTGGGATGTGACAGTGAGGACCTGTGCCTACACCAACCA
CACGGTGCTGCCCGAGGCCCTGGAGCGCTGGCCGGTGCACCTCTTGGAGACGCTGCTGCCGCGGCACCTCCAGAT
CATCTACGAGATCAACCAGCGCTTCCTCAACCGGGTGGCGGCCGCATTCCCAGGGGACGTAGACCGGCTGCGGCG
CATGTCGCTGGTGGAGGAGGGCGCAGTGAAGCGCATCAACATGGCACACCTGTGCATCGCGGGGTCGCACGCCGT
CAACGGCGTGGCGCGCATCCACTCCGAGATCCTCAAGAAGACCATCTTCAAAGACTTCTATGAGCTGGAGCCTCA
TAAGTTCCAGAATAAGACCAACGGCATCACCCCTCGGCGCTGGCTGGTTCTGTGTAACCCCGGGCTGGCAGAGGT
CATTGCTGAGCGCATCGGGGAGGACTTCATCTCTGACCTGGACCAGCTGCGCAAACTGCTCTCCTTTGTGGATGA
TGAAGCTTTCATTCGGGATGTGGCCAAAGTGAAGCAGGAAAACAAGTTGAAGTTTGCTGCCTACCTAGAGAGGGA
ATACAAAGTCCACATCAACCCCAACTCACTCTTCGACATCCAGGTGAAGCGGATTCACGAATATAAACGACAGCT
CCTCAACTGCCTCCATGTCATCACCCTGTACAACCGCATCAAGAGGGAGCCCAATAAGTTTTTTGTGCCTCGGAC
TGTGATGATTGGAGGGAAGGCTGCACCTGGGTACCACATGGCCAAGATGATCATCAGACTCGTCACAGCCATCGG
GGATGTGGTCAACCATGACCCGGCAGTGGGTGACCGCCTCCGTGTCATCTTCCTGGAGAACTACCGAGTCTCACT
GGCCGAGAAAGTGATCCCAGCTGCAGACCTCTCTGAGCAGATCTCCACTGCGGGCACTGAAGCCTCAGGCACCGG
CAACATGAAGTTCATGCTCAACGGGGCTCTGACCATTGGCACCATGGACGGGGCCAATGTGGAGATGGCAGAAGA
GGCGGGAGAGGAAAACTTCTTCATCTTTGGCATGCGGGTGGAGGATGTGGATAAGCTTGACCAAAGAGGGTACAA
TGCCCAGGAGTACTACGATCGCATTCCTGAGCTTCGGCAGGTCATTGAGCAGCTGAGCAGTGGCTTCTTCTCCCC
CAAACAGCCCGACCTGTTCAAGGACATTGTCAATATGCTCATGCACCATGACCGGTTTAAAGTCTTCGCAGATTA
TGAAGACTACATTAAATGCCAGGAGAAAGTCAGCGCCTTGTACAAGAACCCAAGAGAGTGGACGCGGATGGTGAT
CCGGAACATAGCCACCTCTGGCAAGTTCTCCAGTGACCGCACCATTGCCCAGTATGCCCGGGAGATCTGGGGTGT
GGAGCCTTCCCGCCAGCGCCTGCCAGCCCCGGATGAGGCCATC**TGA**GCCTCCAGACCAGACCCCAAACCAGCCCT
TGAGTCTGTCACACTCTCTTGGGCCAGCCCCAGCACCTCATGCAGAGGGTGGGGTACTGGAGTTAGATCTCT

FIGURE 112

AAATGAAGTGCGCGCTGCGACACCTCCCAGCCCACCGAACTCCGCCGCCATTTCCTCGCTTGGCCTAACGGTTCG
GCCAATCCCAGCGCGCATCAAGAAGGACTGAGGCTCCGCCAATCGGAGGCCGCCGATTTCGACCCTTCGCCTCGG
CCCGGCCCAATCCAGGCCCCGGCCCCGCCGCCCCCGGCCCGCCCCCGCGGTGCCCTCTCTCCTCCCTCTTTGTGC
GTCTCGCGCCGCCGCCGCCCGCCGCGTGAGAGGACGGGCTCCGCGCGCTCCGGCAGCGCATTCGGGTCCCCTCCC
CCCGGGAGGCTTGCGAAGGAGAAGCCGCCGCAGAGGAAAAGCAGGTGCCGGTGCCTGTCCCCGGGGGCGCCATGG
CGACCGGAGCGAACGCCACGCCGTTGGACTTCCCAAGTAAGAAGCGGAAGAGGAGCCGCTGGAACCAAGACACAA
TGGAACAGAAGACAGTGATTCCAGGAATGCCTACAGTTATTCCCCCTGGACTTACTCGAGAACAAGAAAGAGCTT
ATATAGTGCAACTGCAGATAGAAGACCTGACTCGTAAACTGCGCACAGGAGACCTGGGCATCCCCCCTAACCCTG
AGGACAGGTCCCCTTCCCCTGAGCCCATCTACAATAGCGAGGGGAAGCGGCTTAACACCCGAGAGTTCCGCACCC
GCAAAAAGCTGGAAGAGGAGCGGCACAACCTCATCACAGAGATGGTTGCACTCAATCCGGATTTCAAGCCACCTG
CAGATTACAAACCTCCAGCAACACGTGTGAGTGATAAAGTCATGATTCCACAAGATGAGTACCCAGAAATCAACT
TTGTGGGGCTGCTCATCGGGCCCAGAGGGAACACCCTGAAGAACATAGAGAAGGAGTGCAATGCCAAGATTATGA
TCCGGGGGAAAGGGTCTGTGAAAGAAGGGAAGGTTGGGCGCAAAGATGGCCAGATGTTGCCAGGAGAAGATGAGC
CACTTCATGCCCTGGTTACTGCCAATACAATGGAGAACGTCAAAAAGGCAGTGGAACAGATAAGAAACATCCTGA
AGCAGGGTATCGAGACTCCAGAGGACCAGAATGATCTACGGAAGATGCAGCTTCGGGAGTTGGCTCGCTTAAATG
GGACCCTTCGGGAAGACGATAACAGGATCTTAAGACCCTGGCAGAGCTCAGAGACCCGCAGCATTACCAACACCA
CAGTGTGTACCAAGTGTGGAGGGGCTGGCCACATTGCTTCAGACTGTAAATTCCAAAGGCCTGGTGATCCTCAGT
CAGCTCAGGATAAAGCACGGATGGATAAAGAATATTTGTCCCTCATGGCTGAACTGGGTGAAGCACCTGTCCCAG
CATCTGTGGGCTCCACCTCTGGGCCTGCCACCACACCCCTGGCCAGCGCACCTCGTCCTGCTGCTCCCGCCAACA
ACCCACCTCCACCGTCTCTCATGTCTACCACCCAGAGCCGCCCACCCTGGATGAATTCTGGCCCTTCAGAGAGTC
GGCCCTACCACGGCATGCATGGAGGTGGTCCTGGTGGGCCCGGAGGTGGCCCCCACAGCTTCCCACACCCATTAC
CCAGCCTGACAGGTGGGCATGGTGGACATCCCATGCAGCACAACCCCAATGGACCCCCACCCCCTTGGATGCAGC
CACCACCACCACCGATGAACCAGGGCCCCCACCCTCCTGGGCACCATGGCCCTCCTCCAATGGATCAGTACCTGG
GAAGTACGCCTGTGGGCTCTGGGGTCTATCGCCTGCATCAAGGAAAAGGTATGATGCCGCCACCACCTATGGGCA
TGATGCCGCCGCCGCCGCCGCCTCCCAGTGGGCAGCCCCCACCCCCTCCCTCTGGTCCTCTTCCCCCATGGCAAC
AACAGCAGCAGCAGCCTCCGCCACCCCCTCCGCCCAGCAGCAGTATGGCTTCCAGTACCCCCTTGCCATGGCAGC
AAAATACGACGACTACCACCACGAGCGCTGGCACAGGGTCCATCCCGCCATGGCAACAGCAGCAGGCGGCTGCCG
CAGCTTCTCCAGGAGCCCCTCAGATGCAAGGCAACCCCACTATGGTGCCCCTGCCCCCCGGGGTCCAGCCGCCTC
TGCCGCCTGGGGCCCCTCCCCCTCCGCCCCGTAGCATCGAGTGTCTTCTTTGTCTTCTTTCTCTCCTCACCCAAC
TCCCTTTGCCTCTCCCCAAACCGGGCCGCCAGGATCCCTCCCCGCGGCGGCGATGGCCCGAGCCATGAGAGTGAG
GACTTTCCGCGCCCATTGGTGACCCTTCCAGGCAGACAGCCTCAGCAACGCCCCTGGTGGACAGGATGGTTCGGC
AAAGCAGCCTGAGTTATTTTTGTGGACGGAATCGGAACACGCTGGCTCCATATCGTGAAATTTTTATTAATTTTT
TTCTTTTTCCTTTGTTACTTCTTTATCTTTTCCTTTCTTCAGACTCCGTCCAAGGAGATGCTCTCCCCGGTCTTC
TGCTGCAATTTAGATTCCTTTCCCTTCTCTCCAGTTCTCCTTCCCTTACCAAGGAGAGGGGAGCAAATGGTTTTG
GGCAAGGGCTTTGGCCATTCATGTCAAGCTGGTTGTGGGTTTTTCAAGGTGCCATAGCCACCCCCAAATATGTTT
GTTTAAAGCGTGGGGTTTTTTAATCTCTGCCACCCTTGTCAAGGGAGTCTTGTAAAGTTGCCGAGGGTAGGTTCA
TCTCCAGGTTTCGGGATTCCCATCCGTCCTGGCGATCCTGCCAGCAGTGGGTGGGCAGCCTGAGCTCCCTCGGGC
TCGCCTGCCAGCCTGGAGTTCTTCCTGTGCTCCTTGATCACCTGAGCTGCCTCAGATTCCATTTGGTCCTCTCCT
TCCTGGAAGGCTTCCTTTTATGTTTTGTTTTAATCCCAAATGTCTGAATGTTTTGCAGTGTGTAGGGGTTTGAGC
CCCTTGTTCATTCTCCTTCCTTTTTCCTCCCGCTTCCCTCTCCATGAAGTGATTCTGTTGACAATAATGTATACT
GCGCGTTCTCTTCACTGGTTTATCTGCAGAAATTTCTCTGGGCTTTTTTCGGTGTTAGATTCAACACTGCGCTAA
AGCGGGGATGTTCCATTGAATAAAAGAGCAGTGTGGTTTTCTGGG

FIGURE 113

GCGCCGGGCCATGGCGCTGCTGCGGGATGTGTCGCTGCAGGACCCGCGGGACCGCTTCGAGCTGCTGCAGCGCGT
GGGGGCCGGGACCTATGGCGACGTCTACAAGGCCCGCGACACGGTCACGTCCGAACTGGCCGCCGTGAAGATAGT
CAAGCTAGACCCAGGGGACGACATCAGCTCCCTCCAGCAGGAAATCACCATCCTGCGTGAGTGCCGCCACCCCAA
TGTGGTGGCCTACATTGGCAGCTACCTCAGGAATGACCGCTTGTGGATCTGCATGGAGTTCTGCGGAGGGGGCTC
CCTGCAGGAGATTTACCATGCCACTGGGCCCCTGGAGGAGCGGCAGATTGCCTACGTCTGCCGAGAGGCACTGAA
GGGGCTCCACCACCTGCATTCTCAGGGGAAGATCCACAGAGACATCAAGGGAGCCAACCTTCTCCTCACTCTCCA
GGGAGATGTCAAACTGGCTGACTTTGGGGTGTCAGGCGAGCTGACAGCGTCTGTGGCCAAGAGGAGGTCTTTCAT
TGGGACTCCCTACTGGATGGCTCCCGAGGTGGCTGCTGTGGAGCGCAAAGGTGGCTACAATGAGCTATGTGACGT
CTGGGCCCTGGGCATCACTGCCATTGAGCTGGGCGAGCTGCAGCCCCCTCTGTTCCACCTGCACCCCATGAGGGC
CCTGATGCTCATGTCGAAGAGCAGCTTCCAGCCGCCCAAACTGAGAGATAAGACTCGCTGGACCCAGAATTTCCA
CCACTTTCTCAAACTGGCCCTGACCAAGAATCCTAAGAAGAGGCCGACAGCAGAGAAGCTCCTGCAGCACCCGTT
CACGACTCAGCAGCTCCCTCGGGCCCTCCTCACACAGCTGCTGGACAAAGCCAGTGACCCTCATCTGGGGACCCC
CTCCCCTGAGGACTGTGAGCTGGAGACCTATGACATGTTTCCAGACACCATTCACTCCCGGGGGCAGCACGGCCC
AGCCGAGAGGACCCCCTCGGAGATCCAGTTTCACCAGGTGAAATTTGGCGCCCCACGCAGGAAGGAAACTGACCC
ACTGAATGAGCCGTGGGAGGAAGAGTGGACACTACTGGGAAAGGAAGAGTTGAGTGGGAGCCTGCTGCAGTCGGT
CCAGGAGGCCCTGGAGGAAAGGAGTCTGACTATTCGGTCAGCCTCAGAATTCCAGGAGCTGGACTCCCCAGACGA
TACCATGGGAACCATCAAGCGGGCCCCGTTCCTAGGGCCACTCCCCACTGACCCTCCAGCAGAGGAGCCTCTGTC
CAGTCCCCCAGGAACCCTGCCCCCACCTCCTTCAGGCCCCAACAGCTCCCCACTGCTGCCCACGGCCTGGGCCAC
CATGAAGCAGCGGGAGGATCCTGAGAGGTCATCCTGCCACGGGCTCCCCCCAACTCCCAAGGTGCATATGGGCGC
CTGCTTCTCCAAGGTCTTCAATGGCTGCCCCCTGCGGATCCACGCTGCTGTCACCTGGATTCACCCTGTTACTCG
GGACCAGTTCCTGGTGGTAGGGGCCGAGGAAGGCATCTACACACTCAACCTGCATGAACTGCATGAGGATACGCT
GGAGAAGCTGATTTCACATCGCTGCTCCTGGCTCTACTGCGTGAACAACGTGCTGCTGTCACTCTCAGGGAAATC
CACGCACATCTGGGCCCATGACCTCCCAGGCCTGTTTGAGCAGCGGAGGCTACAGCAACAGGTTCCCCTCTCCAT
CCCCACCAACCGCCTCACCCAGCGCATCATCCCCAGGCGCTTTGCTCTGTCCACCAAGATTCCTGACACCAAAGG
CTGCTTGCAGTGTCGTGTGGTGCGGAACCCCTACACGGGTGCCACCTTCCTGCTGGCCGCCCTGCCCACCAGCCT
GCTCCTGCTGCAGTGGTATGAGCCGCTGCAGAAGTTTCTGCTGCTGAAGAACTTCTCCAGCCCTCTGCCCAGCCC
AGCTGGGATGCTGGAGCCGCTGGTGCTGGATGGGAAGGAGCTGCCGCAGGTGTGTGTTGGGGCCGAGGGGCCTGA
GGGGCCCGGCTGCCGCGTCCTGTTCCATGTCCTGCCCCTGGAGGCTGGCCTGACGCCCGACATCCTCATCCCACC
TGAGGGGATCCCAGGCTCGGCCCAGCAGGTGATCCAGGTGGACAGGGACACAATCCTAGTCAGCTTTGAACGCTG
TGTGAGGATTGTCAACATGCAGGGCGAGCCCACGGCCACACTGGCACCTGAGCTGACCTTTGATTTCCCCATCGA
GACTGTGGTGTGCCTGCAGGACAGTGTGCTGGCCTTCTGGAGCCATGGGATGCAAGGCCGAAGCCTGGATACCAA
TGAGGTGACCCAGGAGATCACAGATGAAACAAGGATCTTCCGAGTGCTTGGGGCCCACAGAGACATCATCCTGGA
GAGCATTCCCACTGACAACCCAGAGGCGCACAGCAACCTCTACATCCTCACGGGCCACCAGAGCACCTACTAAGA
GCAGCGGGCCTGTCCAGGGGCTCCCCGCCCCACCCCACGCCTTAGCTGCAGGCCCTTTTGGGCAAAGGGGCCCAT
CCTAGACCAGAGGAGCCCAGGCCCTGGCCCTGCTGGGGCTGAAGGTCAGAAGTAATCCTGAGAAATGTTTCAGGC
CTGGGGAGGGAGGGGAGCCCCCGACGCCTCTGCAATAACTGGACCAGGGGGAGCTGCTGTCACTCCCCCATCCCC
GAGGCAGCCCAGTCCCTAGTGCCCAAGGCAGGGACCCTGGGCCTGGGCCATCCATTCCATTTTGTTCCACATTTC
CTTTCTACTCTTTCTGCCAAGAGCCTGCCCCTGCATTTGTCCTGGGAAACACGGTATTTAAGAGAGAACTATATT
GGTATTAAAGCTGGTTTGTTTT

FIGURE 114

TATATTTATGTATATGCACATACACACAAAATTAGGCGGGAGTGGTGGCGCACGCCTGTGATCACAGCTACTCGG
GAGGCTGAGGCACGAGAATCGCTTGAGCCCGTGAAGTCGAGGCTGCAGTGAGCCCAGATCGAGCCACTGCATTCC
AGCCTGGGCGAAAGAGAAAGACCGTGTCTCAAAACAAACAAACAAAAGCTACTCTTAGCACGTGTTAGAGTATCT
CGCGGGCGGAAGTGGGAAACGAGTGCTGCACACAGACAACCTGATCTTTTTCCTCATAACTTGCCGACCGACCCG
TGACAGCAAAACCGGCAGAAGCTCGGCGACCTCCCACCCCGAGTCTGCAGGTAGCCGCCGCCCACCGCCCGCCGT
CATGGGGCTGAAGGCCGCCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCTGTTTGCTGC
CGAGCTGGGCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCTTGGTGCTGGGCTTCGTGGAGCATTTTCTGGCTGT
CAACCGCGTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCCAGCCCCGCCCCCGACCCGCCTGGCGGCCT
CACCTACTTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGCTTCACCGCCCAGATCCGAGGCGC
CGTCGACCTGTCCCTCTATCCTCGAGAAGGGGGTGTCTCCAGCCGTGAGCTGGTGAAGAAGGTCTCCGATGTCAT
ATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCCACATCCAGTCCCTCTTCAGCTTCATCACAGGTTG
GAGCCCAGTAGGCACCAAATTGGACAGCTCCGGTGTGGCCTTTGCTGTGGTTGGGGCCTGCCAGGCCCTGGGTCT
CCAGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCTGGGTAGTGTTTGGGCCCAATGGGGAGCAGACAGCTGA
GGTCACCTGGCACGGCAAGGGCAACGAGGACCGCAGGGGCCAGACAGTCAATGCCGGTGTGGCTGAGCGGAGCTG
GCTGTACCTGAAAGGATCATACATGCGCTGTGACCGCAAGATGGAGGTGGCGTTCATGGTGTGTGCCATCAACCC
TTCCATTGACCTGCACACCGACTCGCTGGAGCTTCTGCAGCTGCAGCAGAAGCTGCTCTGGCTGCTCTATGACCT
GGGACATCTGGAAAGGTACCCCATGGCCTTAGGGAACCTGGCAGATCTAGAGGAGCTGGAGCCCACCCCTGGCCG
GCCAGACCCACTCACCCTCTACCACAAGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCC
CTACATGTACCTGGCTGGCTACCACTGTCGCAACCGCAATGTGCGGGAAGCCCTGCAGGCCTGGGCGGACACGGC
CACTGTCATCCAGGACTACAACTACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGA
TGTCATCCCCAACCTGCTGAAGGAGGCAGCCAGCTTGCTGGAGGCGGGCGAGGAGCGGCCGGGGGAGCAAAGCCA
GGGCACCCAGAGCCAAGGTTCCGCCCTCCAGGACCCTGAGTGCTTCGCCCACCTGCTGCGATTCTACGACGGCAT
CTGCAAATGGGAGGAGGGCAGTCCCACGCCTGTGCTGCACGTGGGCTGGGCCACCTTTCTTGTGCAGTCCCTAGG
CCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAGCCGAGAGGCCGAGGCGGCCGAGGCCGAGGAGCC
GTGGGGCGAGGAAGCCCGGGAAGGCCGGCGGCGGGGCCCACGGCGGGAGTCCAAGCCAGAGGAGCCCCCGCCGCC
CAAGAAGCCAGCACTGGACAAGGGCCTGGGCACCGGCCAGGGTGCAGTGTCAGGACCCCCCCGGAAGCCTCCTGG
GACTGTCGCTGGCACAGCCCGAGGCCCTGAAGGTGGCAGCACGGCTCAGGTGCCAGCACCCGCAGCATCACCACC
GCCGGAGGGTCCAGTGCTCACTTTCCAGAGTGAGAAGATGAAGGGCATGAAGGAGCTGCTGGTGGCCACCAAGAT
CAACTCGAGCGCCATCAAGCTGCAACTCACGGCACAGTCGCAAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCC
TAGTGACTACACTCTGTCTTTCCTCAAGCGGCAGCGCAAAGGCCTCTGAACTACTGGGGACTTCGGACCGCTTGT
GGGGACCCAGGCTCCGCCCTTAGTCCCCCAACTCTGAGCCCATGTTCTGCCCCCAGCCCAAAGGGGACAGGCCTC
ACCTCTACCCAAACCCTAGGTTCCCGGTCCCGAGTACAGTCTGTATCAAACCCACGATTTTCTCCAGCTCAGAAC
CCAGGGCTCTGCCCCAGTCGTTAGAATATAGGTCTCTTCTCCCAGAATCCCAGCCGGCCAATGGAAACCTCACGC
TGGGTCCTAATTACCAGTCTTTAAAGGCCCAGCCCCTAGAAACCCAAGCTCCTCCTCGGAACCGCTCACCTAGAG
CCAGACCAACGTTACTCAGGGCTCCTCCCAGCTTGTAGGAGCTGAGGTTTCACCCTTAACCCAAGGAGCACAGGT
CCCACCTCCAGCCCGGGAGCCTAGGACCACTCAGCCCCTAGGAGTATATTTCCGCACTTCAGAATTCCATATCTT
GCGAATCCAAGCTCCCTGCCCCAAATAACTTCAGTCCTGCTCCAGAATTTGGAAATCCTAGTTTCCTCTCCTTCG
TATCCCGAGTCTGGGACACAAAACTCCGCCCCCAGCCTATGAGCATCCTGAGCCCCGCCCTCTTCCTGACGAAAC
TGGCCCCGGATCAGAGCAGGACCTCCCTTCCGACCCTCTGGGAACCTCCCAGAGGTCCAGCCCATCTCGGAGCAT
CCCGGAGGAAATCTGCAGAGGGTTAGGAGTGGGTGACAAGAGCCTGATCTCTTCCTGTTTTGTACATAGATTTAT
TTTTCAGTTCCAAGAAAGATGAATACATTTTGTT

FIGURE 115

GGCACCAGTCGGAGGGGCGGGGCTGGGAGGGGCTCCTCCCTACCGCCCCCAATTCCGCCCTGCCCCCGCCGCGGC
GGCGCTAGCCGCCACTGAGGGACCGACCCTATAAAGGCCGCTCCGCGAGGGGTGCGCAGCATTCGGCAGAGGGCG
CTTCGACGGGCTGGGCTGTGCGCCTGCGCAGTGTGGGTCGCTCCCGATTCCCTGCCCCGGCCGGCCCCGCCTCGG
CTCCGCACCCTCGCCCCGCTCTCAGCCGCCGCTCTGCCCCGCAGCAGCCAGCCCCGTGTCCGGCAGT**ATG**TTCAG
CTGGGTCAGCAAGGATGCCCGCCGCAAGAAGGAGCCGGAGCTCTTCCAGACGGTGGCTGAGGGGCTGCGGCAGCT
GTACGCGCAGAAGCTGCTACCCCTGGAGGAGCACTACCGCTTCCACGAGTTCCACTCGCCCGCGCTGGAGGACGC
TGACTTCGACAACAAGCCTATGGTGCTCCTCGTGGGGCAGTACAGCACGGGCAAGACCACCTTCATCCGACACCT
GATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCCGAGCCCACCACCGACTCCTTCATCGCCGTCATGCACGG
CCCCACTGAGGGCGTGGTGCCGGGCAACGCGCTCGTGGTGGACCCGCGGCGCCCCTTCCGCAAGCTCAACGCGTT
TGGCAACGCTTTCCTCAACAGGTTCATGTGTGCCCAGCTGCCCAACCCCGTCCTGGACAGCATCAGCATCATCGA
CACCCCCGGGATCCTGTCTGGAGAGAAGCAGCGGATCAGCAGAGGCTATGACTTTGCAGCCGTCCTGGAGTGGTT
CGCGGAGCGTGTGGACCGCATCATCCTGCTCTTCGACGCCCACAAGCTGGACATCTCCGATGAGTTCTCGGAAGT
GATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGCGTGGTGCTGAACAAGGCAGACCAGATCGAGACGCAGCA
GCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTGGGCAAGATCATCAACACCCCCGAGGTGGTCAGGGTCTA
CATCGGCTCCTTCTGGTCCCACCCGCTCCTCATCCCCGACAACCGCAAGCTCTTTGAGGCCGAGGAGCAGGACCT
CTTCAAGGACATCCAGTCACTGCCCCGAAACGCCGCCCTCAGGAAGCTCAATGACCTGATCAAGCGGGCACGGCT
GGCCAAGGTTCACGCCTACATCATCAGCTCCCTCAAGAAAGAGATGCCCAATGTCTTTGGTAAAGAGAGCAAAAA
GAAAGAGCTGGTGAACAACCTCGGAGAGATCTACCAGAAGATTGAGCGCGAGCACCAGATCTCCCCTGGGGACTT
CCCGAGCCTCCGCAAGATGCAGGAACTCCTGCAGACCCAGGACTTCAGCAAGTTCCAGGCGCTGAAGCCCAAGCT
GCTGGACACGGTGGATGACATGCTGGCCAACGACATCGCGCGGCTGATGGTGATGGTGCGGCAGGAGGAGTCCCT
GATGCCTTCCCAGGTGGTCAAGGGCGGCGCCTTTGACGGCACCATGAACGGGCCGTTCGGGCACGGCTACGGCGA
GGGGGCCGGCGAGGGCATCGACGACGTGGAGTGGGTGGTGGGCAAGGACAAGCCCACCTACGACGAGATCTTCTA
CACGCTGTCCCCTGTCAACGGCAAGATCACGGGCGCCAACGCCAAGAAGGAGATGGTGAAGTCCAAGCTCCCCAA
CACCGTGCTAGGGAAGATCTGGAAGCTGGCCGACGTGGACAAGGACGGGCTGCTGGACGACGAGGAGTTCGCGCT
GGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCACGAGCTGCCTGCCGACCTGCCCCCGCACCTGGTGCCGCC
CTCCTCTGCCTGGGGCCAT**TGA**GCCCAGCCTCCAGGGCCCGGGCGCGTTTGCAGGCCAGTGGCCACTGTCCGGGC
TGTGATGGCACCAAGGCAGGTGGAGCACCAGGTACCACACAGCTGGGCTTCCCACCAGGCTTTCCCGCGGGGGTC
TCAGGGAGCTTCTCCCCAGCGCTGCTCGGAGTCTGCAGGAACTGGCCTTGTTCTCCTTAGCCCGTCACTCCATAC
AGTATTAGGTGAGGATGGATGCGGGCGCTGTCCTTGCCGGGAAGTCACTGTTGAAGTTGCAGTGGCTTGTTCACA
CCTGTGGGAAGAGAAGTGAAGACTTTCTCCTTGCATTAAAAAGTCTGAACTGTG

FIGURE 116A

ACGGGGATCGCCGGCGGGCGGCAAGCGGAGGCGGCCCAGGCCCGGCGGTCTCCGAGATGTCACGATGGCTGTGGC
CATGGTCAAACTGTGTGAAAGAGCGGGTCTGCCGCTACTTGCTGCACCACTACTTAGGTCACTTCTTCCAAGAGC
ACCTCAGCCTGGACCAGCTCAGCCTCGATCTGTACAAGGGCAGCGTTGCCCTGCGAGACATCCACCTGGAAATCT
GGTCTGTGAACGAGGTGCTGGAGTCAATGGAGTCACCGCTGGAGCTGGTGGAAGGCTTCGTGGGCTCCATCGAGG
TGGCCGTGCCCTGGGCTGCTCTGCTCACCGACCACTGCACAGTGCGCGTGTCCGGCCTCCAGCTCACCTTGCAGC
CCCGCCGGGGTCCAGCGCCAGGGGCTGCCGACTCACAGAGCTGGGCCTCATGCATGACCACAAGCCTGCAGCTGG
CCCAGGAGTGTCTGCGGGATGGGCTACCGGAGCCCTCTGAGCCACCACAGCCCCTGGAGGGGCTGGAGATGTTTG
CCCAGACCATTGAGACTGTGCTTCGGAGGATCAAAGTGACCTTCCTGGACACTGTCGTGAGGGTGGAGCACTCTC
CGGGTGATGGGGAACGTGGTGTGGCCGTCGAGGTCCGTGTGCAGAGACTGGAGTACTGTGATGAGGCAGTGCGGG
ACCCAAGCCAGGCGCCGCCGGTGGACGTGCATCAGCCGCCTGCCTTCCTGCACAAGCTGCTGCAGCTGGCAGGGG
TCCGCCTGCACTACGAGGAGCTCCCGGCACAGGAAGAGCCTCCAGAGCCCCCCTTGCAGATCGGCAGCTGCTCAG
GGTACATGGAGCTGATGGTGAAGTTGAAGCAAAATGAGGCCTTCCCTGGCCCCAAGTTGGAGGTGGCGGGACAGC
TGGGCTCCCTGCACCTGCTCCTGACCCCGAGGCAGCTCCAGCAACTTCAGGAACTGCTCAGCGCCGTGAGCCTTA
CAGACCACGAGGGCCTGGCTGACAAGCTGAACAAGAGCCGCCCGCTAGGTGCCGAAGACCTGTGGCTGATTGAGC
AGGACCTGAACCAGCAGCTGCAGGCAGGGGCAGTGGCTGAGCCCCTCAGCCCAGACCCCCTTACCAACCCCCTTC
TCAACCTGGATAACACTGACCTCTTCTTCTCCATGGCTGGCCTCACAAGCAGTGTGGCCTCAGCCCTCTCTGAGC
TCTCCCTCTCCGATGTAGACCTGGCCTCCTCTGTGCGCAGCGACATGGCCTCCCGCCGGCTCTCTGCCCAGGCCC
ACCCAGCTGGCAAGATGGCCCCCAACCCCCTCCTGGACACCATGCGCCCTGACTCGCTGCTGAAGATGACCTTGG
GGGGTGTGACCCTGACCTTGCTTCAGACGTCTGCCCCATCTTCCGGACCACCTGACCTCGCCACGCACTTTTTCA
CCGAGTTTGATGCCACCAAGGATGGGCCCTTCGGTTCCCGAGACTTCCATCACCTTCGACCACGCTTCCAGAGGG
CCTGTCCCTGTAGCCATGTTCGGCTAACGGGCACAGCCGTGCAGCTGTCCTGGGAGCTGCGGACGGGCAGTCGGG
GCCGGCGGACAACCAGCATGGAAGTGCACTTCGGGCAGCTGGAGGTGCTGGAGTGTCTGTGGCCCCGGGGCACCT
CTGAGCCTGAGTACACGGAGATCCTGACCTTTCCTGGTACGCTGGGCTCCCAGGCCTCAGCTCGGCCCTGCGCCC
ATCTGCGCCACACACAGATCCTGCGCCGTGTGCCTAAGAGCCGACCCCGGCGCTCAGTTGCCTGCCATTGCCACT
CAGAACTGGCCCTGGACCTGGCCAACTTCCAGGCGGACGTGGAGCTGGGGGCCCTGGACCGGCTGGCCGCCCTAC
TGCGCCTGGCCACCGTACCTGCTGAGCCTCCAGCCGGCCTGCTGACAGAGCCCCTGCCGGCGATGGAGCAGCAGA
CGGTATTTCGGCTCTCTGCACCCCGGGCCACGCTGCGGCTGCGCTTCCCCATTGCCGACCTGCGGCCTGAGCCGG
ACCCCTGGGCGGGCCAGGCCGTGCGGGCTGAGCAGCTTCGGCTGGAGCTGAGTGAGCCCCAGTTCCGGTCAGAGC
TTAGCAGTGGGCCTGGTCCCCCAGTCCCCACCCACCTGGAACTCACCTGCTCCGACCTACATGGTATCTATGAAG
ATGGAGGGAAGCCACCTGTCCCTTGCCTGCGTGTCTCCAAAGCCCTGGACCCCAAGAGCACTGGGCGCAAGTACT
TCCTGCCCCAGGTAGTGGTGACTGTGAACCCCCAGTCCAGCAGCACACAGTGGGAGGTGGCCCCGGAGAAGGGAG
AGGAACTGGAGCTGTCAGTGGAGAGTCCCTGTGAGCTGCGGGAACCTGAGCCCTCGCCCTTCTCCTCTAAGAGGA
CCATGTATGAGACAGAGGAGATGGTGATCCCTGGAGACCCTGAGGAGATGAGGACGTTCCAGAGCCGGACCCTGG
CACTGTCCCGCTGCAGCCTGGAAGTGATCCTGCCCAGTGTCCACATCTTTCTGCCCAGCAAGGAGGTCTACGAGA
GCATCTACAACAGGATCAACAACGACCTGCTCATGTGGGAGCCTGCAGATCTGCTTCCCACCCCCGACCCCGCCG
CCCAGCCCTCGGGCTTCCCCGGCCCCTCAGGCTTCTGGCACGACAGCTTTAAGATGTGCAAGTCAGCCTTCAAGC
TGGCCAACTGCTTTGATCTCACCCCAGACTCGGACTCGGATGACGAGGATGCCCACTTCTTCTCAGTGGGGGCAT
CAGGTGGCCCACAGGCCGCTGCCCCTGAGGCCCCAAGTCTTCACTTGCAGAGCACCTTCTCTACACTGGTGACAG
TGCTGAAGGGGCGGATCACAGCCCTCTGTGAGACCAAGGATGAGGGTGGGAAGCGGCTGGAGGCTGTGCACGGGG
AGCTGGTGCTGGACATGGAGCACGGTACCCTCTTCAGCGTCTCCCAGTACTGTGGCCAGCCAGGACTTGGCTACT
TCTGTCTGGAAGCTGAAAAGGCAACACTCTACCACCGAGCGGCCGTGGATGACTACCCGCTGCCCAGTCACCTGG
ACCTTCCCAGTTTCGCTCCCCCGGCTCAGCTGGCCCCAACCATCTACCCATCGGAGGAAGGGGTGACCGAGCGGG
GAGCCTCGGGCCGCAAGGGCCAGGGCCGGGGACCCCACATGTTGTCCACTGCTGTGCGCATCCACCTGGACCCCC
ACAAGAATGTGAAGGAGTTCCTGGTGACACTGCGGTTGCACAAAGCCACCTTGCGCCACTACATGGCCCTGCCCG
AGCAGAGCTGGCATTCCCAGTTGTTGGAGTTCCTAGACGTGCTGGATGACCCTGTGCTGGGCTACCTGCCCCCGA
CGGTCATCACCATCCTGCACACACACCTGTTCTCCTGCTCTGTGGACTATAGGCCACTCTACCTCCCAGTGCGTG
TCCTCATCACCGCGGAGACCTTCACTCTCTCCAGCAACATCATCATGGACACCTCCACCTTCCTGCTCAGGTTCA
TCCTCGATGACTCCGCCTTGTACCTGTCCGACAAGTGTGAGGTGGAGACCCTGGACCTGCGGCGAGATTATGTCT

FIGURE 116B

GTGTTTTGGATGTTGACCTCTTGGAACTTGTGATTAAAACCTGGAAAGGGAGCACCGAGGGCAAACTGAGCCAGC
CACTATTCGAGCTGCGCTGCTCCAACAATGTGGTACACGTGCACAGCTGTGCCGACTCCTGTGCCCTGCTGGTCA
ACCTGCTCCAGTACGTAATGAGCACAGGCGATCTGCACCCCCCACCCCGGCCCCCCAGCCCCACGGAGATCGCCG
GCCAGAAGCTCTCGGAGAGTCCTGCCTCTCTGCCCTCGTGCCCCCCAGTGGAGACGGCCCTCATCAACCAGCGTG
ACCTGGCCGACGCCCTCCTGGACACCGAGCGCAGCCTACGGGAGCTGGCCCAGCCTTCAGGTGGCCACCTCCCTC
AGGCGTCGCCCATCTCCGTCTACCTATTCCCAGGTGAACGGAGTGGGGCCCCACCCCCTTCACCACCTGTCGGGG
GCCCTGCTGGCAGCTTAGGGTCATGCTCAGAGGAGAAGGAAGATGAAAGGGAAGAGGAGGGCGATGGAGACACCC
TGGACAGTGATGAGTTCTGCATCCTTGATGCTCCCGGCCTGGGCATCCCGCCCCGAGATGGGGAGCCTGTGGTGA
CACAGCTGCATCCCGGCCCCATCGTTGTGAGGGACGGTTACTTCTCACGGCCGATCGGCAGCACGGACTTGCTGC
GGGCACCTGCCCATTTCCCAGTGCCCAGCACTCGGGTGGTGCTACGTGAGGTCTCCCTCGTCTGGCACCTCTATG
GGGGCCGAGACTTTGGCCCCCACCCCGGCCACAGGGCAAGAACTGGCCTCTCAGGTCCCAGGAGCTCCCCTTCCC
GCTGCTCTGGCCCCAACCGGCCCCAGAACTCATGGCGCACGCAGGGGGGCAGCGGGCGGCAGCACCATGTCCTCA
TGGAGATCCAGCTGAGCAAGGTAAGCTTCCAGCACGAGGTGTACCCAGCGGAGCCAGCCACAGGCCCTGCGGCCC
CCAGCCAGGAGCTGGAGGAGCGACCGCTGTCCCGTCAGGTGTTCATCGTGCAGGAGCTGGAGGTCCGAGACCGGC
TCGCCTCCTCCCAGATCAACAAGTTCCTGTACCTACACACGAGTGAGCGGATGCCGCGACGTGCCCACTCTAACA
TGCTCACCATCAAAGCGCTGCATGTGGCCCCCACTACCAACCTGGGTGGGCCTGAGTGCTGTCTCCGCGTCTCGC
TGATGCCCCTGCGGCTCAATGTGGACCAGGATGCCCTCTTCTTCCTCAAGGACTTCTTCACTAGTCTGGTGGCCG
GCATCAACCCCGTGGTCCCAGGGGAGACCTCCGCTGAGGCTCGCCCCGAGACTCGAGCCCAGCCCAGCAGCCCCC
TGGAAGGGCAGGCCGAAGGCGTAGAGACCACTGGTTCGCAGGAGGCCCCAGGAGGTGGACACAGCCCCTCCCCTC
CTGACCAGCAGCCCATCTACTTCAGAGAGTTCCGCTTCACGTCTGAGGTCCCCATCTGGCTGGATTACCATGGCA
AGCACGTCACGATGGACCAGGTGGGCACTTTTGCTGGCCTCCTCATCGGCCTGGCCCAACTCAACTGCTCCGAGC
TGAAGCTAAAGCGGCTCTGTTGCAGGCACGGGCTCCTGGGTGTGGACAAGGTGCTGGGCTATGCCCTCAACGAGT
GGCTGCAGGACATCCGCAAGAACCAGCTGCCCGGCCTGCTGGGAGGCGTGGGCCCCATGCACTCGGTTGTCCAGC
TCTTCCAAGGGTTCCGGGACCTGCTGTGGCTGCCCATTGAGCAGTACAGGAAGGATGGCCGCCTCATGCGGGGGC
TGCAGCGAGGGGCTGCCTCCTTTGGCTCATCCACAGCCTCTGCCGCCCTGGAACTCAGCAACCGGTTGGTACAGG
CTATCCAGGCCACAGCTGAGACCGTGTATGACATCCTGTCCCCGGCAGCCCCCGTCTCCCGCTCCCTGCAGGATA
AGCGCTCTGCGCGGAGGCTGCGCAGGGGCCAGCAGCCTGCCGACCTGCGGGAGGGTGTGGCCAAGGCCTACGACA
CAGTGCGAGAGGGCATCTTGGATACAGCTCAGACCATCTGTGACGTGGCATCGCGGGGCCATGAGCAGAAGGGGC
TGACGGGCGCCGTGGGGGGCGTGATCCGCCAGCTGCCCCCGACTGTGGTGAAGCCGCTCATCCTGGCCACGGAGG
CCACGTCCAGCCTGCTCGGGGGCATGCGCAACCAGATTGTCCCCGACGCCCACAAGGACCACGCCCTCAAGTGGC
GCTCGGACAGTGCCCAAGAC**TGA**GCCTGGGGTGCCCGGCACCCAGAGGGTGCTGCCCACCATGCTCCTGAGCCTC
CCAAGAGCTGCAGCCCACGGGCCCGGCCCGGCCTGGCCCTTCAGGGGATGGCCACTGTGAAGGACGCCTTCCCAG
CCTGCCCGTTGCCAATCTGCTGTGAGAGGGGGGCCTCCCTGCCTTGGGGCCTTAGCCCTGGCTCTGCACTTTTCC
TCCGGGGAGAAAGGACACTGCCCCTCCCCCGACCTGGGCCCACACTGCTGCCTTCTCCCAGGACGGAGGCTTTTG
GACCCTCGGACCCCATCCCACTCAGCCAAGTGTCTTTCTGTGTCTGGGGGGAGGAGGGGATGATATCCGTGTGGT
TCGATGTATTATTTTTAAGCTCCGTGAGTGCGTGGGTCAGTGTCTGCATGAAGTGGAATAAACTGCCCACCGCC

FIGURE 117

CCGTCGCCCTCCCTACGGGCAGCCCCCGGGGGTTGGCGACCGAAGTCTAGGTTTTCGAGAAAGCCAGGGTGGGAA
CCCTAACTGGACTCTTCGGGACCCCCAGGAAGGATCTGAGGCCTGAGCCATCCTCCTTTCTACCCTGTCTGCCCC
CCAGGACTGGGCAGTTGCAGGAGGCCCTGGGGGGGGGCCCAGGACTGTGGTTGTGCCCCCCCCCCAAAGGCCGGA
CAGGATGGGACCAAGTTAGTCTGTCCAGTCTCACCCAGCACCTCCCAGGCCCAGAGAGAACCCCCGGGGCTCTGA
AAGCTTGCCCTGCCGCCTGACCGCC**ATG**GAGACGAAGCTGCCCCCTGCAAGCACCCCCACTAGCCCCTCCTCCCC
CGGGCTGTCGCCTGTGCCCCCACCCGACAAGGTGGACGGCTTCTCCCGCCGTTCCCTCCGCAGAGCCCGGCCCCG
CCGCTCCCACAGCTCCTCTCAGTTCCGCTATCAGAGCAACCAGCAAGAGCTCACACCGCTGCCCCTGCTCAAAGA
TGTGCCGGCTTCCGAGCTGCACGAGCTGCTGAGCCGGAAGCTGGCCCAGTGTGGGGTGATGTTTGACTTCTTGGA
CTGTGTGGCCGACCTCAAGGGGAAGGAGGTGAAGCGGGCAGCCCTCAACGAGCTGGTGGAGTGTGTGGGGAGCAC
CCGGGGTGTCCTCATCGAGCCCGTCTACCCAGACATCATCCGCATGATCTCAGTGAATATCTTCCGGACTCTGCC
GCCCAGTGAGAACCCTGAATTTGACCCTGAAGAGGATGAGCCCAATCTTGAGCCTTCGTGGCCACACCTGCAGCT
GGTATATGAGTTTTTCCTGCGTTTCTTGGAGAGCCCAGACTTCCAGCCCTCCGTGGCCAAGAGATATGTGGATCA
AAAGTTTGTCCTGATGCTCCTGGAGCTATTTGATAGTGAGGATCCCCGGGAGCGTGAGTACCTCAAGACCATCCT
GCACCGGGTCTATGGCAAGTTCCTGGGTCTCCGGGCCTACATCCGCAAACAGTGCAACCACATCTTCCTCCGGTT
CATCTATGAATTCGAGCACTTCAATGGTGTGGCTGAGCTGCTGGAGATCCTAGGAAGCATCATCAATGGCTTTGC
GCTGCCCCTGAAGACGGAGCACAAGCAGTTCCTGGTTCGCGTCCTGATCCCCCTGCACTCTGTCAAGTCGCTGTC
TGTCTTCCATGCCCAGCTGGCATACTGTGTGGTGCAGTTCCTGGAGAAGGATGCCACTCTGACAGAGCACGTGAT
CCGGGGGCTGCTCAAATACTGGCCAAAAACCTGCACCCAGAAGGAGGTGATGTTTCTGGGGGAGATGGAAGAGAT
TCTTGATGTCATCGAGCCCTCCCAGTTTGTGAAGATCCAGGAGCCCCTTTTTAAGCAGGTGGCTCGCTGTGTTTC
CAGCCCCCATTTCCAGGTTGCAGAGCGGGCTCTGTATTTCTGGAACAATGAGTATATCCTAAGCCTCATTGAGGA
CAACTGCCACACTGTGCTGCCTGCTGTGTTTGGGACCCTCTACCAAGTCTCCAAGGAGCACTGGAACCAAACCAT
CGTATCACTGATCTACAATGTGCTCAAGACCTTCATGGAGATGAATGGGAAGCTGTTTGATGAGCTCACAGCCTC
CTACAAGCTGGAAAAGCAGCAGGAGCAGCAGAAGGCCCAGGAGCGTCAGGAGTTATGGCAAGGTCTGGAGGAGCT
GCGGCTACGCCGGCTACAGGGGACCCAGGGGGCCAAGGAGGCCCCCCTCCAGCGGCTTACACCCCAGGTGGCCGC
CAGTGGGGGTCAGAGC**TAG**ACAGCACCTCAGAAGGGGAAAAGCTAAACCCAGAGCTGTCAGTCCCTCTATCCCTT
CTCCTGTCCAGGGGCCCAGAGAGAAACACACCTACCCCTGGCCTTGCCAGAGTGGCTTCTGAGGACTCCCTGCCC
AGCCCAGCTTTCACTGGGGGGAGACGAGGAGAGGCAATGGTGGTCTTGGCAACAGAATGCTCAGCCCCTCGTGGC
AGGACTTGACAAGGGCAAGCTTGACCAGGAAGCTGCCATCAGGGATCTTCCCCTGCCCCGCAAAGCTAGGCTCCA
GCTGCAGGCGGGCTCCCACCCTCTGCTCCTGGCCTTGGGCAAGGGCACTCAGCGCCTCGCCTGCCCCTGCCTTGG
CCAATGCGAGGTCCTTCCTTATCCCCACCATGGGGTCCATGGTCTATTTATTCTCGCCCAGCTCACCCTCTACAC
AGACACTGTCCTGGGTGCACACTCCTCCCTTCCCTCGCTGTGTACTTCCTTGTCCCCTTTTTATTTATTGGGCAG
GGGGAGGGGGAGGGCACAGGCAAGAAGAGATTCACAGTGTCCTGGGGTAAGGGGGGGTTCACAGTAATCATGGTC
TACTCCTCTTTCCGTGGCTGGGGGTAGACTTAATAAAGAGAGAAATTC

FIGURE 118

AAGGAGAGAGGGAGGGCGGAGGGCGGAGGGGCGGCGGGAGGAGGGCGGGGAGGAGCGCTCTTCCTGGTTGGGCCC
TGCCCTGAGCTGCCACCGGGAAGCCAGCCTCAGGGACTGCAGCGACCCCCAAACACCCCTCCCCCAGGATGTCGG
AGGAGATCATCACGCCGGTGTACTGCACTGGGGTGTCAGCCCAAGTGCAGAAGCAGCGGGCCAGGGAGCTGGGCC
TGGGCCGCCATGAGAATGCCATCAAGTACCTGGGCCAGGATTATGAGCAGCTGCGGGTGCGATGCCTGCAGAGTG
GGACCCTCTTCCGTGATGAGGCCTTCCCCCCGGTACCCCAGAGCCTGGGTTACAAGGACCTGGGTCCCAATTCCT
CCAAGACCTATGGCATCAAGTGGAAGCGTCCCACGGAACTGCTGTCAAACCCCCAGTTCATTGTGGATGGAGCTA
CCCGCACAGACATCTGCCAGGGAGCACTGGGGGACTGCTGGCTCTTGGCGGCCATCGCCTCCCTCACTCTCAACG
ACACCCTCCTGCACCGAGTGGTTCCGCACGGCCAGAGCTTCCAGAATGGCTATGCCGGCATCTTCCATTTCCAGC
TGTGGCAATTTGGGGAGTGGGTGGACGTGGTCGTGGATGACCTGCTGCCCATCAAGGACGGGAAGCTAGTGTTCG
TGCACTCTGCCGAAGGCAACGAGTTCTGGAGCGCCCTGCTTGAGAAGGCCTATGCCAAGGTAAATGGCAGCTACG
AGGCCCTGTCAGGGGGCAGCACCTCAGAGGGCTTTGAGGACTTCACAGGCGGGGTTACCGAGTGGTACGAGTTGC
GCAAGGCTCCCAGTGACCTCTACCAGATCATCCTCAAGGCGCTGGAGCGGGGCTCCTGCTGGGCTGCTCCATAGA
CATCTCCAGCGTTCTAGACATGGAGGCCATCACTTTCAAGAAGTTGGTGAAGGGCCATGCCTACTCTGTGACCGG
GGCCAAGCAGGTGAACTACCGAGGCCAGGTGGTGAGCCTGATCCGGATGCGGAACCCCTGGGGCGAGGTGGAGTG
GACGGGAGCCTGGAGCGACAGCTCCTCAGAGTGGAACAACGTGGACCCATATGAACGGGACCAGCTCCGGGTCAA
GATGGAGGACGGGGAGTTCTGGATGTCATTCCGAGACTTCATGCGGGAGTTCACCCGCCTGGAGATCTGCAACCT
CACACCCGACGCCCTCAAGAGCCGGACCATCCGCAAATGGAACACCACACTCTACGAAGGCACCTGGCGGCGGGG
GAGCACCGCGGGGGGCTGCCGAAACTACCCAGCCACCTTCTGGGTGAACCCTCAGTTCAAGATCCGGCTGG**ATG**A
GACGGATGACCCGGACGACTACGGGGACCGCGAGTCAGGCTGCAGCTTCGTGCTCGCCCTTATGCAGAAGCACCG
TCGCCGCGAGGCCGCTTCGGCCGCGACATGGAGACTATTGGCTTCGCGGTCTACGAGGTCCCTCCGGAGCTGGTC
GCGAGCCGGCCGTACACTTGAAGCGTGACTTCTTCCTGGCCAATGCGTCTCGGGCGCGCTCAGAGCAGTTCATCA
ACCTGCGAGAGGTCAGCACCCGCTTCCGCCTGCCACCCGGGGAGTATGTGGTGGTGCCCTCCACCTTCGAGCCCA
ACAAGGAGGGCGACTTCGTGCTGCGCTTCTTCTCAGAGAAGAGTGCTGGGACTGTGGAGCTGGATGACCAGATCC
AGGCCAATCTCCCCGATGAGCAAGTGCTCTCAGAAGAGGAGATTGACGAGAACTTCAAGGCCCTCTTCAGGCAGC
TGGCAGGGGAGGACATGGAGATCAGCGTGAAGGAGTTGCGGACAATCCTCAATAGGATCATCAGCAAACACAAAG
ACCTGCGGACCAAGGGCTTCAGCCTAGAGTCGTGCCGCAGCATGGTGAACCTCATGGATCGTGATGGCAATGGGA
AGCTGGGCCTGGTGGAGTTCAACATCCTGTGGAACCGCATCCGGAATTACCTGTCCATCTTCCGGAAGTTTGACC
TGGACAAGTCGGGCAGCATGAGTGCCTACGAGATGCGGATGGCCATTGAGTCGGCAGGCTTCAAGCTCAACAAGA
AGCTGTACGAGCTCATCATCACCCGCTACTCGGAGCCCGACCTGGCGGTCGACTTTGACAATTTCGTTTGCTGCC
TGGTGCGGCTAGAGACCATGTTCCGATTTTTCAAAACTCTGGACACAGATCTGGATGGAGTTGTGACCTTTGACT
TGTTTAAGTGGTTGCAGCTGACCATGTTTGCA**TGA**GGCAGGGACTCGGTCCCCCTTGCCGTGCTCCCCTCCCTCC
TCGTCTGCCAAGCCTCGCCTCCTACCACACCACACCAGGCCACCCCAGCTGCAAGTGCCTTCCTTGGAGCAGAGA
GGCAGCCTCGTCCTCCTGTCCCCTCTCCTCCCAGCCACCATCGTTCATCTGCTCCGGGCAGAACTGTGTGGCCCC
TGCCTGTGCCAGCCATGGGCTCGGGATGGACTCCCTGGGCCCCACCCATTGCCAAGCCAGGAAGGCAGCTTTCGC
TTGTTCCTGCCTCGGGACAGCCCCGGGTTTCCCCAGCATCCTGATGTGTCCCCTCTCCCCACTTCAGAGGCCACC
CACTCAGCACCACCGGCCTGGCCTTGCCTGCAGACTATAAACTATAACCACTAGCTCGACACAGTCTGCAGTCCA
GGCGTGTGGAGCCGCCTCCCGGCTCGGGGAGGCCCCGGGGCTGGGAACGCCTGTGCCTTCCTGCGCCGAAGCCAA
CGCCCCCTCTGTCCTTCCCTGGCCCTGCTGCCGACCAGGAGCTGCCCAGCCTGTGGGCGGTCGGCCTTCCCTCCT
TCGCTCCTTTTTTATATTAGTGATTTTAAAGGGGACTCTTCAGGGACTTGTGTACTGGTTATGGGGGTGCCAGAG
GCACTAGGCTTGGGGTGGGGAGGTCCCGTGTTCCATATAGAGGAACCCCAAATAATAAAAGGCCCCACATCTGTC
TGTG

FIGURE 119

GTTCCGGTTCGCAGGGGGTGGGGAGTGTTGTTAACCGGAGGGGCAGCCGCAGTCGCGCGGATTGAGCGGGCTCGC
GGCGCTGGGTTCCTGGTCTCCGGGCCAGGGCAATGTTCCGCACGGCAGTGATGATGGCGGCCAGCCTGGCGCTGA
CCGGGGCTGTGGTGGCTCACGCCTACTACCTCAAACACCAGTTCTACCCCACTGTGGTGTACCTGACCAAGTCCA
GCCCCAGCATGGCAGTCCTGTACATCCAGGCCTTTGTCCTTGTCTTCCTTCTGGGCAAGGTGATGGGCAAGGTGT
TCTTTGGGCAACTGAGGGCAGCAGAGATGGAGCACCTTCTGGAACGTTCCTGGTACGCCGTCACAGAGACTTGTC
TGGCCTTCACCGTTTTTCGGGATGACTTCAGCCCCCGCTTTGTTGCACTCTTCACTCTTCTTCTCTTCCTCAAAT
GTTTCCACTGGCTGGCTGAGGACCGTGTGGACTTTATGGAACGCAGCCCCAACATCTCCTGGCTCTTTCACTGCC
GCATTGTCTCTCTTATGTTCCTCCTGGGCATCCTGGACTTCCTCTTCGTCAGCCACGCCTATCACAGCATCCTGA
CCCGTGGGGCCTCTGTGCAGCTGGTGTTTGGCTTTGAGTATGCCATCCTGATGACGATGGTGCTCACCATCTTCA
TCAAGTATGTGCTGCACTCCGTGGACCTCCAGAGTGAGAACCCCTGGGACAACAAGGCTGTGTACATGCTCTACA
CAGAGCTGTTTACAGGCTTCATCAAGGTTCTGCTGTACATGGCCTTCATGACCATCATGATCAAGGTGCACACCT
TCCCACTCTTTGCCATCCGGCCCATGTACCTGGCCATGAGACAGTTCAAGAAAGCTGTGACAGATGCCATCATGT
CTCGCCGAGCCATCCGCAACATGAACACCCTGTATCCAGATGCCACCCCAGAGGAGCTCCAGGCAATGGACAATG
TCTGCATCATCTGCCGAGAAGAGATGGTGACTGGTGCCAAGAGACTGCCCTGCAACCACATTTTCCATACCAGCT
GCCTGCGCTCCTGGTTCCAGCGGCAGCAGACCTGCCCCACCTGCCGTATGGATGTCCTTCGTGCATCGCTGCCAG
CGCAGTCACCACCACCCCCGGAGCCTGCGGATCAGGGGCCACCCCCTGCCCCCCACCCCCCACCACTCTTGCCTC
AGCCCCCCAACTTCCCCCAGGGCCTCCTGCCTCCTTTTCCTCCAGGCATGTTCCCACTGTGGCCCCCCATGGGCC
CCTTTCCACCTGTCCCGCCTCCCCCCAGCTCAGGAGAGGCTGTGGCTCCTCCATCCACCAGTGCAGCCCTTTCTC
GGCCCAGTGGAGCAGCTACAACCACAGCTGCTGGCACCAGTGCTACTGCTGCTTCTGCCACAGCATCTGGCCCAG
GCTCTGGCTCTGCCCCAGAGGCTGGCCCTGCCCCTGGTTTCCCCTTCCCTCCTCCCTGGATGGGTATGCCCCTGC
CTCCACCCTTTGCCTTCCCCCCAATGCCTGTGCCCCCTGCGGGCTTTGCTGGGCTGACCCCAGAGGAGCTACGAG
CTCTGGAGGGCCATGAGCGGCAGCACCTGGAGGCCCGGCTGCAGAGCCTGCGTAACATCCACACACTGCTGGACG
CCGCCATGCTGCAGATCAACCAGTACCTCACCGTGCTGGCCTCCTTGGGGCCCCCCCGGCCTGCCACTTCAGTCA
ACTCCACTGAGGAGACTGCCACTACAGTTGTTGCTGCTGCCTCCTCCACCAGCATCCCTAGCTCAGAGGCCACGA
CCCCAACCCCAGGAGCCTCCCCACCAGCCCCTGAAATGGAAAGGCCTCCAGCTCCTGAGTCAGTGGGCACAGAGG
AGATGCCTGAGGATGGAGAGCCCGATGCAGCAGAGCTCCGCCGGCGCCGCCTGCAGAAGCTGGAGTCTCCTGTTG
CCCACTGACACTGCCCCAGCCCAGCCCCAGCCTCTGCTCTTTTGAGCAGCCCTCGCTGGAACATGTCCTGCCACC
AAGTGCCAGCTCCCTCTCTGTCTGCACCAGGGAGTAGTACCCCCAGCTCTGAGAAAGAGGCGGCATCCCCTAGGC
CAAGTGGAAAGAGGCTGGGGTTCCCATTTGACTCCAGTCCCAGGCAGCCATGGGGATCTCGGGTCAGTTCCAGCC
TTCCTCTCCAACTCTTCAGCCCTGTGTTCTGCTGGGGCCATGAAGGCAGAAGGTTTAGCCTCTGAGAAGCCCTCT
TCTTCCCCCACCCCTTTCCAGGAGAAGGGGCTGCCCCTCCAAGCCCTACTTGTATGTGCGGAGTCACACTGCAGT
GCCGAACAGTATTAGCTCCCGTTCCCAAGTGTGGACTCCAGAGGGGCTGGAGGCAAGCTATGAACTTGCTCGCTG
GCCCACCCCTAAGACTGGTACCCATTTCCTTTTCTTACCCTGATCTCCCCAGAAGCCTCTTGTGGTGGTGGCTGT
GCCCCCTATGCCCTGTGGCATTTCTGCGTCTTACTGGCAACCACACAACTCAGGGAAAGGAATGCCTGGGAGTGG
GGGTGCAGGCGGGCAGCNNTGNGGGNCCNNGCNCCGCCCCTCCCCCCAGGCCCCTTTCCTCTGCAGCTTCTCAAG
TGAGACTGACCTGTCTCACCCAGCAGCCACTGCCCAGCCGCACTCCAGGCAAGGGCCAGTGCGCCTGCTCCTGAC
CACTGCAATCCCAGCGCCCAAGGAAGGCCACTTCTCAACTGGCAGAACTTCTGAAGTTTAGAATTGGAATTACTT
CCTTACTAGTGTCTTTTGGCTTAAATTTTGTCTTTTGAAGTTGAATGCTTAATCCCGGGAAAGAGGAACAGGAGT
GCCAGACTCCTGGTCTTTCCAGTTTAGAAAAGGCTCTGTGCCAAGGAGGGACCACAGGAGCTGGGACCTGCCTGC
CCCTGTCTTTTCCCCTTGGTTTTGTGTTACAAGAGTTGTTGGAGACAGTTTCAGATGATTATTTAATTTGTAAAT
ATTGTACAAATTTTAATAGCTTAAATTGTATATACAGCCAAATAAAAACTTGCATTAAC

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FIGURE 120

GTAGCAGGTAAAGATGGCAGCTACCATGTTCCGGGCTACGCTGCGGGGATGGAGAACCGGTGTCCAGCGGGGCTG
CGGGCTACGGCTGTTGAGCCAGACCCAGGGCCCTCCAGATTACCCCAGGTTTGTGGAGTCTGTGGATGAATATCA
GTTTGTGGAGCGCCTGTTACCGGCTACCAGGATCCCAGATCCCCCAAAGCATGAACATTATCCTACCCCTAGTGG
CTGGCAGCCTCCCAGAGACCCCCCACCCAACCTGCCTTACTTTGTACGACGCTCTCGGATGCACAACATCCCCGT
CTACAAGGACATCACGCATGGCAACCGGCAGATGACTGTGATCCGGAAAGTGGAAGGGGACATCTGGGCCCTGCA
GAAAGACGTGGAAGATTTTCTGAGCCCGCTGCTGGGGAAGACACCTGTCACCCAGGTCAATGAGGTGACAGGTAC
CCTACGGATCAAGGGCTACTTTGACCAGGAGCTTAAAGCCTGGCTCTTGGAGAAAGGCTTCTGAGGCCCAGCCGA
GCAGCCTGCTTGTCAGCATGCCCTGTGGATCAAGTCTAGGGGGCCTCAGGAGGAGGGAGGTGGGTGTTGGAGCCC
CTGAGACAGGGGATACAGAAACTAGGGCTAAAGGACTTTGGGGTCAGGCCTTGCTTGCATAAAGGAGAAAACAAC
TCTATGTACATGCTGGGGGAGAGTGCCTAATGTGGGAGACCAAATAGGGATCACCAGGCTAATGGGGGGCGTCAG
CAGCTTTCTCTCCCTCCTATCTTGGCCTGTTCTTTTTTGTTTTTTGAGACGGAGTCTCACTCTGTTGCCCAGGGT
GGAGTGCAGTGGCATGATCTTGGCTCACTGCAACTTCCACCTCTGGGATCAAGGGATTCTCCTGCCTCAGCCTCT
TGAGTAGCTGGGATTACAGGCGCCCACCACCACAGCCTGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCAC
CATGTTGGCCAGGCTGGTCTCAAACTCCTGACTCGAAGTGATCCGCCCACCTTGGCCTCCCAAAGCGTTGGGATT
ATAGGCATGAGCCATGTGCCTGGTCCACCTTGGCCTGTTTTGTTTTTCTTTCCTTGGGCTCAGCAATTCAAATTC
TAGTTGTTATTTGGTGGAAGCAGTAGCCCAACCCCAGTTTAGGGGAAGGTAGCACAGGGCAGAGCCACTGGGCAC
TTTGTTTCCTTGGCCCTCCGAAGCTCACTGTTGCAAATACCCCCAAGCCTTTGCTCTAGGCCAGATCTTGTTTGG
TGCAGGTGATGGAGAACACAGATGACTCGGGCATGGGTCTTGGAGATCTTCTGTTCAAAGTACAGTGCTGGCACT
GGGGCACAGAGTGCCCACGTTAGCCCCGGGCTCTGATAGAGAGGTAGGAGGCACGTTCTTGGTCACTGTTCCATT
GCAGACCAGACTTGCTGGCCTGACCACAAGGGAGTGGCTGGGAACTCACAGCCAGCATAGGGACATCCCCCTGCA
GCCTTCTGACCTGCAATCAAGGCTGGGGAGGGGTTTGCAGGCAGGAATATGCTGACCTTTCACCCTGCCATCCCA
TCCCAACCCCAGCTCACTAGCCTTCATATATGCCTTATACTTGGAGTCACAGGGGCCAAAGGCCTGAGACCCCAC
CCTGCCCCCAAACTGGCTAAGACAGCTTTCAGTTCCTGACTCCCCAACTTGGTCTCTGCCCTGAAGCAGGGCACT
GAACTCTGGGCTGCTTCTCTGTGTGTAAAATGGGCACATCTTCCTAATCTGTTAATGGTCAGTGGTGTCCCCAAG
GATAGTGCTGGCTTCCATGGAAACCCTCACTCCTGGAGATTCCATTCCATTTTCAAGTGTACAGCCACAGCAAGG
AGCCCGACACTGATTTGATCGATTCTGTGACACAAACCCCACCAATTGTTAATGCAAGTTTTTATTTGGCTGTAT
ATACAATTTAAGCTATTAAAATTTGTACAATATTTACAAATTAAA

FIGURE 121

CAGTGACGTGACACGCAGCCCACGGTCTGTACTGACGCGCCCTCGCTTCTTCCTCTTTCTCGACTCCATCTTCGC
GGTAGCTGGGACCGCCGTTCAGTCGCCAATATGCAGCTCTTTGTCCGCGCCCAGGAGCTACACACCTTCGAGGTG
ACCGGCCAGGAAACGGTCGCCCAGATCAAGGCTCATGTAGCCTCACTGGAGGGCATTGCCCCGGAAGATCAAGTC
GTGCTCCTGGCAGGCGCGCCCCTGGAGGATGAGGCCACTCTGGGCCAGTGCGGGGTGGAGGCCCTGACTACCCTG
GAAGTAGCAGGCCGCATGCTTGGAGGTAAAGTCCATGGTTCCCTGGCCCGTGCTGGAAAAGTGAGAGGTCAGACT
CCTAAGGTGGCCAAACAGGAGAAGAAGAAGAAGACAGGTCGGGCTAAGCGGCGGATGCAGTACAACCGGCGC
TTTGTCAACGTTGTGCCCACCTTTGGCAAGAAGAAGGGCCCCAATGCCAACTCTTAAGTCTTTTGTAATTCTGGC
TTTCTCTAATAAAAAAGCCACTTAGTTCAGTC

FIGURE 122

CTACCACCGGCGTGCGTTCGCAGGTAGATCGCGGTGCCAGTTGCC**ATG**GAGCCGGCCGGGCCCTGTGGCTTCTGC
CCGGCGGGGGAGGTCCAGCCAGCGCGTTACACCTGCCCTCGCTGTAATGCGCCCTACTGCTCGCTGCGCTGCTAC
CGGACGCATGGCACCTGCGCAGAAAACTTCTACCGTGACCAGGTGCTGGGAGAGCTCCGCGGTTGCAGCGCTCCT
CCCAGCCGCCTAGCAAGCGCCCTACGCCGGCTGCGTCAGCAACGCGAGACCGAGGACGAGCCTGGGGAAGCAGGC
CTCAGCTCCGGCCCGGCGCCCGGCGGCCTATCGGGACTCTGGGAGCGGCTGGCGCCGGGCGAAAAAGCTGCCTTC
GAGCGGCTGCTGAGCCGCGGTGAGGCCGGGCGGCTGCTGCCTCCATGGCGGCCGTGGTGGTGGAACCGCGGAGCC
GGACCGCAGCTTCTGGAGGAGCTGGATAATGCCCCGGGTAGTGACGCCGCGGAGCTGGAGCTCGCCCCTGCGAGG
ACCCCGCCGGATTCTGTGAAAGATGCCTCCGCCGCGGAGCCCGCGGCCGCCGAGCGGGTTCTTGGAGATGTCCCG
GGGGCCTGCACGCCCGTCGTACCCACCCGCATCCCCGCGATAGTCAGCCTGAGCCGCGGCCCAGTCTCGCCGCTC
GTGCGCTTCCAGCTGCCCAATGTGCTGTTCGCCTACGCGCATACTCTCGCCCTGTATCACGGCGGTGACGACGCG
CTGCTCTCTGACTTCTGTGCCACACTGCTCGGCGTTTCCGGAGCCCTGGGTGCCCAGCAAGTCTTCGCCTCTGCG
GAAGAAGCCCTGCAGGCGGCAGCCCACGTGCTGGAAGCAGGCGAGCACCCGCCGGGGCCCCTGGGCACACGAGGG
GCTATGCACGAGGTCGCCCGCATCCTGCTGGGCGAGGGCCCGACCAACCAGAAAGGCTACACGCTGGCAGCACTG
GGGGACCTGGCACAGACCCTGGGCCGTGCCCGGAAACAGGCCGTGGCTAGAGAAGAGCGAGATCATCTTTACCGG
GCCCGGAAAAAGTGCCAGTTCCTCCTGGCCTGGACCAACGAAAATGAGGCGGCCCTCACACCCCTGGCCCTAGAC
TGCGCCAGGGCTCACCAAGCCCATGCTGTGGTAGCCGAGGAGGTGGCCGCCCTCACTGGGGAGCTGGAGCGGCTT
TGGGGAGGCCCCGTGCCACCTGCCCCAAGAACTCTCATTGAGGAGCTCCCTAGC**TGA**ACGGGTTACCCTGGTCAT
TAATAAAGCTGTGACTGGTCA

FIGURE 123

GTCCAGGCAGGTGCAGGCGCCGCGGGGCCGGATCCTCCGCGCGGCCGAGTCCATCTCCTGGGAAATGGGGCGGAC
AGTGTTTCCTTGACTGACTATTGTGAGCGCCCTCTCTCTCCGGCGGAGCGGAGACCATGGCCCCCACTCAGGGCC
CCCGGGCCCCGCTGGAATTCGGAGGGCCCCTGGGCGCCGCGGCTCTGCTACTGCTGCTGCCCGCCACCATGTTCC
ACCTGCTCCTGGCGGCCCGTTCGGGCCCCGCGCGCCTGCTGGGTCCACCCGCGTCCCTGCCGGGGCTGGAGGTGC
TGTGGAGCCCACGGGCGCTGCTGCTGTGGCTCGCCTGGCTCGGCCTGCAGGCGGCGCTCTACCTACTGCCGGCGC
GCAAGGTGGCCGAGGGGCAGGAATTGAAGGACAAGAGTCGCCTGCGCTATCCTATTAACGGCTTCCAGGCCCTGG
TGCTGACAGCCCTGTTGGTGGGGCTGGGGATGTCAGCGGGGCTGCCTCTGGGGGCGCTCCCGGAAATGCTCCTGC
CCTTGGCGTTTGTCGCCACCCTCACCGCTTTCATCTTCAGCCTCTTTCTCTACATGAAGGCGCAGGTAGCCCCAG
TTTCGGCCCTGGCACCTGGGGGGAACTCAGGCAATCCGATTTACGACTTTTTTCTGGGACGAGAGCTCAACCCTC
GTATCTGTTTCTTCGACTTCAAATATTTCTGTGAACTGCGACCCGGCCTCATCGGCTGGGTCCTCATCAACCTGG
CCCTGTTGATGAAGGAGGCAGAGCTTCGAGGCAGTCCCTCACTGGCCATGTGGCTGGTCAATGGCTTCCAGTTGC
TCTACGTGGGTGATGCCCTCTGGCACGAGGAGGCCGTCCTCACCACCATGGATATCACACATGACGGGTTTGGCT
TCATGCTGGCGTTTGGGGACATGGCCTGGGTGCCCTTCACCTACAGCCTGCAGGCCCAGTTCCTGCTGCACCACC
CGCAGCCCCTGGGGTTGCCCATGGCCTCTGTCATCTGCCTCATCAATGCTACTGGTTACTACATCTTCCGTGGGG
CGAATTCCCAGAAAAACACTTTCCGAAAGAATCCTTCTGACCCCAGAGTGGCTGGGCTTGAGACCATCTCTACAG
CCACAGGGCGGAAACTGCTGGTGTCTGGGTGGTGGGGTATGGTCCGCCATCCCAACTATCTTGGAGACCTCATCA
TGGCTCTGGCTTGGTCCTTGCCCTGCGGGGTGTCACACCTGCTGCCCTACTTCTACCTCCTCTACTTCACCGCGC
TGCTGGTGCACCGTGAGGCCCGGGATGAGCGGCAGTGCCTGCAGAAGTACGGCCTGGCCTGGCAGGAGTACTGCC
GGCGTGTGCCTTACCGCATCATGCCCTACATCTACTGAAGCGGCTCCACCACCCCAGGTGGGGGCATGTGCCCAC
TCATCCACCAGCACACCCAGGACCAGGAGCCTCGACACACTTGGGACTCAAGGGCTTGCACCCCACCCAGCCCTG
AGGATGAACAACCTCAGAGAAGAGGTGGTTTAGAGCAAGGAAAAAAATGAAACCAGTGACC

FIGURE 124

GGAAGTGCCTCCTCCCCGTCCCCTTCCTTTCCAGCCTCACGCCCGTGGGCTGCAGTTGGAACGATGGCGGCGGCA
GCTGCCGCCGGGCCTAGCCCGGGGTCTGGACCTGGGGACTCCCCAGAAGGGCCCGAGGGGGAGGCTCCGGAGCGT
CGGCGGAAGGCGCACGGGATGCTGAAGCTTTACTACGGCCTCTCGGAAGGGGAGGCGGCGGGACGCCCCGCGGGG
CCCGACCCCCTGGACCCGACTGATCTGAACGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCGTAGA
GAGTGCCCTCTGGCCCAGTTGATGGACAGTGAGACGGACATGGTGCGGCAGATCCGGGCTCTAGACAGCGACATG
CAGACCCTGGTCTATGAGAACTACAACAAGTTCATCTCAGCCACAGACACCATCCGGAAGATGAAGAACGATTTC
CGGAAGATGGAGGATGAGATGGACCGGCTGGCCACCAACATGGCAGTGATCACCGACTTCAGCGCTCGCATCAGC
GCCACGCTGCAGGACCGCCACGAGCGCATCACCAAGCTGGCAGGTGGGCGCTGCCGGGCAGGGCCTGCAGTGGGC
CTTTCCTGGGGCTCTGGGGCTAACGTCACCCTCCGTCCCCCAGGGGTCCACGCGCTGCTGCGGAAGCTGCAGTTC
CTCTTTGAGCTGCCCTCGCGCCTCACCAAGTGCGTGGAACTGGGCGCCTATGGGCAGGCGGTGCGCTACCAGGGC
CGCGCGCAGGCCGTGCTGCAGCAGTACCAACACCTGCCCTCGTTCCGCGCCATCCAGGACGACTGCCAGGTCATC
ACGGCCCGCCTGGCCCAGCAGCTGCGGCAGCGCTTTAGGGAGGGCGGCTCAGGCGCCCCGGAGCAGGCAGAGTGC
GTGGAGCTGCTGCTGGCCCTGGGCGAGCCTGCGGAGGAGCTGTGCGAGGAGTTCCTGGCGCACGCCCGCGGCCGG
CTGGAGAAGGAGCTGAGAAACCTGGAGGCCGAGCTGGGGCCCTCACCTCCGGCTCCCGACGTGTTAGAGTTCACC
GACCATGGAGGCAGTGGCTTCGTGGGCGGCCTCTGCCAGGTGGCGGCGGCCTACCAGGAGCTGTTTGCGGCCCAG
GGCCCAGCAGGTGCCGAGAAGCTGGCGGCCTTCGCCCGGCAGCTGGGCAGCCGCTATTTTGCGCTGGTGGAGCGG
CGGCTGGCGCAGGAGCAGGGTGGTGGTGACAACTCACTGCTGGTGCGGGCGCTGGACCGCTTCCACCGGCGCTTG
CGGGCTCCCGGGGCCCTGCTGGCCGCTGCCGGGCTCGCAGACGCTGCCACGGAGATCGTGGAACGAGTGGCCCGC
GAGCGCCTGGGCCACCACCTGCAGGGTCTCCGGGCGGCCTTCCTGGGCTGCCTGACAGACGTCCGCCAGGCGCTG
GCAGCACCTCGCGTGGCTGGGAAGGAGGGCCCTGGCCTGGCCGAGTTGCTGGCCAATGTGGCCAGCTCCATCCTG
AGCCACATTAAGGCCTCTCTGGCAGCAGTGCACCTTTTCACCGCCAAAGAGGTGTCCTTCTCCAACAAGCCCTAC
TTCCGGGGTGAGTTCTGCAGTCAGGGTGTCCGTGAGGGCCTCATCGTGGGCTTCGTCCACTCTATGTGCCAGACG
GCTCAGAGCTTCTGCGACAGCCCTGGGGAGAAGGGGGGTGCCACACCACCTGCCCTGCTCCTGCTGCTCTCCCGC
CTCTGCCTGGACTACGAGACGGCCACCATCTCCTACATCCTCACTCTCACTGATGAACAGTTTCTGGTGCAGGAT
CAGTTCCCAGTGACGCCCGTGAGCACGCTGTGTGCAGAGGCCAGGGAAACGGCGCGGCGGCTGCTGACCCACTAC
GTGAAGGTGCAGGGCCTGGTCATATCACAGATGCTGCGCAAGAGCGTGGAGACTCGCGACTGGCTCAGCACTCTG
GAGCCCCGGAATGTGCGGGCCGTCATGAAGCGGGTGGTGGAGGATACCACCGCCATCGACGTGCAGGTGGGGCTC
CTGTACGAAGAGGGTGTTCGCAAGGCCCAGAGCAGCGACTCCAGCAAGAGGACTTTCTCCGTGTACAGCAGCTCT
CGGCAGCAGGGCCGCTACGCCCCCAGCTATACCCCCAGTGCCCCGATGGACACCAACCTCTTGAGCAATATCCAG
AAGCTATTCTCTGAACGTATTGATGTGTTCAGCCCTGTGGAGTTCAACAAGGTGTCGGTGCTGACCGGCATCATC
AAGATCAGCCTGAAGACGCTGCTGGAGTGTGTGCGGCTGCGCACCTTTGGGCGCTTCGGGCTGCAGCAGGTGCAA
GTGGACTGCCACTTTCTGCAGCTCTACCTGTGGCGTTTTGTGGCCGACGAAGAACTCGTGCACTTGCTGCTGGAC
GAAGTGGTGGCCTCTGCTGCCCTGCGCTGCCCAGACCCTGTGCCCATGGAGCCCAGTGTGGTTGAGGTCATCTGC
GAGCGCGGCTAGGCGCAGCCGCTGCCATGCACCGGTCTGTCCCTGCACCCCATGGCACCCAGGATCTGGTCTCGG
TGGTCCTTCCCCGCAGGCAGGTGTCAGGACCGGCCTAATAAACATGTGTGGCCTCCTCCTCTCGCTTGCTGGGCG
GGCCTTTCCGGGGGCGGGGTTTTGAAGCTGAGGCTTCTGAGGCGCCCGCGTCGGGTCCGCCCCCGAGCGCCGATT
GGCTGGTGTGCTGGGCCCAGCATGGGCAGGGGGCGGTTCCACTTAAAAACCCTGGGACGA

FIGURE 125

GAGGGATAATCGGGGCGGCCGGGGCTGAAGGGAGAGGCGCAGGAGCCCTGGGGAGAGTGGTCCCTGCCCTTCCGC
GCCTCGAGCCATCGCTACCGCCCTTCGGAACCAGTGCAGCGGCCGATCAGTAAACACAGAGACTGGGGATCGATC
ATGGGGCTTTGTAAGTGCCCCAAGAGAAAGGTGACCAACCTGTTCTGCTTCGAACATCGGGTCAACGTCTGCGAG
CACTGCCTGGTAGCCAATCACGCCAAGTGCATCGTCCAGTCCTACCTGCAATGGCTCCAAGATAGCGACTACAAC
CCCAATTGCCGCCTGTGCAACATACCCCTGGCCAGCCGAGAGACGACCCGCCTTGTCTGCTATGATCTCTTTCAC
TGGGCCTGCCTCAATGAACGTGCTGCCCAGCTACCCCGAAACACGGCACCTGCCGGCTATCAGTGCCCCAGCTGC
AATGGCCCCATCTTCCCCCCAACCAACCTGGCTGGCCCCGTGGCCTCCGCACTGAGAGAGAAGCTGGCCACAGTC
AACTGGGCCCGGGCAGGACTGGGCCTCCCTCTGATCGATGAGGTGGTGAGCCCAGAGCCCGAGCCCCTCAACACG
TCTGACTTCTCTGACTGGTCTAGTTTTAATGCCAGCAGTACCCCTGGACCAGAGGAGGTAGACAGCGCCTCTGCT
GCCCCAGCCTTCTACAGCCAGGCCCCCCGGCCCCCAGCTTCCCCAGGCCGGCCCGAGCAGCACACAGTGATCCAC
ATGGGCAATCCTGAGCCCTTGACTCACGCCCCTAGGAAGGTGTATGATACGCGGGATGATGACCGGACACCAGGC
CTCCATGGAGACTGTGACGATGACAAGTACCGACGTCGGCCGGCCTTGGGTTGGCTGGCCCGGCTGCTAAGGAGC
CGGGCTGGGTCTCGGAAGCGGCCGCTGACCCTGCTCCAGCGGGCGGGGCTGCTGCTACTCTTGGGACTGCTGGGC
TTCCTGGCCCTCCTTGCCCTCATGTCTCGCCTAGGCCGGGCCGCAGCTGACAGCGATCCCAACCTGGACCCACTC
ATGAACCCTCACATCCGCGTGGGCCCCTCCTGAGCCCCCTTGCTTGTGGCTAGGCCAGCCTAGGATGTGGGTTCT
GTGGAGGAGAGGCGGGGTAATGGGGAGGCTGAGGGCACCTCTTCACTGCCCCTCTCCCTCAAGCCTAAGACACTA
AGACCCCAGACCCAAAGCCAAGTCCACCAGAGTGGCTGCAGGCCAGGCCTGGAGTCCCCGTGGGTCAAGCATTTG
TCTTGACTTGCTTTCCTCCCGGGTCTCCAGCCTCCGACCCCTCGCCCCATGAAGGAGCTGGCAGGTGGAAATAAA
CAACAACTTTATTAAAAC

FIGURE 126

GCAGCGAGTGGCCTTCCCGGTTGGCGCGCGCCCGGGGCGGCGGCGCTGGAGGAGCTCGAGACGGAGCCTAAGTTA
TGTCTGGGAGGCGAACGCGGTCCGGAGGAGCCGCTCAGCGCTCCGGGCCAAGGGCCCCATCTCCTACTAAGCCTC
TGCGGAGGTCCCAGCGGAAATCAGGCTCTGAACTCCCGAGCATCCTCCCTGAAATCTGGCCGAAGACACCCAGTG
CGGCTGCAGTCAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCAATCAC
CTCGCAGGAGCCCTAGGATTTCCTTTTTCTTGGAGAAAGAAAACGAGCCCCCTGGCAGGGAGCTTACTAAGGAGG
ACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAGCACTCCTGTGCCGAACCCTGAGGCCGAGTCCAGCT
CCAAGGAAGGAGAGCTGGACGCCAGAGACTTGGAAATGTCTAAGAAAGTCAGGCGTTCCTACAGCCGGCTGGAGA
CCCTGGGCTCTGCCTCTACCTCCACCCCAGGCCGCCGGTCCTGCTTTGGCTTCGAGGGGCTGCTGGGGGCAGAAG
ACTTGTCCGGAGTCTCGCCAGTGGTGTGCTCCAAACTCACCGAGGTCCCCAGGGTTTGTGCAAAGCCCTGGGCCC
CAGACATGACTCTCCCTGGAATCTCCCCACCACCCGAGAAACAGAAACGTAAGAAGAAGAAAATGCCAGAGATCT
TGAAAACGGAGCTGGATGAGTGGGCTGCGGCCATGAATGCCGAGTTTGAAGCTGCTGAGCAGTTTGATCTCCTGG
TTGAATGAGATGCAGTGGGGGGTGCACCTGGCCAGACTCTCCCTCCTGTCCTGTACATAGCCACCTCCCTGTGGA
GAGGACACTTAGGGTCCCCTCCCCTGGTCTTGTTACCTGTGTGTGTGCTGGTGCTGCGCATGAGGACTGTCTGCC
TTTGAGGGCTTGGGCAGCAGCGGCAGCCATCTTGGTTTTAGGAAATGGGGCCGCCTGCCCAGCCACTCACTGGTG
TCCTGTCTCTTGTCGTCCTGTCCTTCCTATCTCCCCAAAGTACCATAGCCAGTTTCCAGATGGGCCACAGACTGG
GGAGGAGAATCAGTGGCCCAGCCAGAAGTTAAAGGGCTGAGGGTTGAGGTGAGAGGCACCTCTGCTCTTGTTGGG
AGGGGTGGCTGCTTGGAAATAGGCCCAGGGCTCTGCCAGCCTCGGCCTCTCCCTCCTGAGTTGCCTTCTGTTGGT
GGCTTTCTTCTTGAACCCACCTGTGTAAAGAGGTTTTCAGTTCCGTGGGTTTCCCCTTTGATTCTGTAAATAGTC
CCAGAGAGAATTCGTGGGCTGAGGGCAATTCTGTCTTGGAGGAAGAAGCTGGACATTCAGCCTGTGGAGTCTGAG
TTTTGAAGGATGTAGGGAGCCTTAGTTGGGTCTCAGACCATAAGTGTGTACTACACAGAAGCTGTGTTTTCTAGT
TCTGGTCTGCTGTTGAGATGTTTGGTAAATGCCAGGTTGATAGGGCGCTGGCTGCTTGGAGCAAAGGGTGCATTT
CAGGGTGTGGCCACCAGGTGCTGTGAGTTTCTGTGGCTCATGGCCTCTGGGCTGGTCCCTTGCACAGGGCCCACG
CTGGAGTCTTACCACTCTGCTGCAGGGGTGGAAGGTGGCCCCTCTTGTCACCCATACCCATTTCTTACAAAATAA
GTTACACCGAGTCTACTTGGCCCTAGAAGAGAAAGTTGAAGAGTCCCAGACCTACTAGCATTTTGCAACTATGCT
TGTAAAGTCCTCGGAAAGTTTCCTCGCGTACCAGACAGCGGCGGGGGCTGATAGCAATTTTAGTTTTTGGCCTCC
CTATCCTCTCACATGAGAACACTGCCTGGATGCATCTCATGATCTCTGGAGAATTTCCCCATCTTTCTCTTCTTT
CCATCGTGTGGATTCAATAGTGTGGATTTGAAGGCTGCCCTGCCCCCGACTCTCCTGCCGCACCCCTGGCCATTG
TACCTTTTGATGTTTAGAAGTTCGTGGAAGTAGACGCTGAGGTGTGCAGAGGAGCTGGTGGATAACAGAGAATGC
CAGGGAAGATGAGTGCTGGGTCAGGGTACTTGGATGAAACGGTGCAGGCCAGGCGGGCCCTAATAAAACCCTCTG
CCAGGTCTGGGAGTCCCAGGCCATCTGCTCAACGCTCTGTGGTTTGTCAGACCTGCAAGCAAGCCCCCTGCTGGG
GAAGCCTAGGTGTCCTTGAGCTGAACCGCACTGAAGAACTCTTGTCCTCACTGGCTGATGCAGCAGAACTCTTGG
GAAATGTCTTAGTCCTGCAGAATCAGGAGTCACCAGATGATGCAGAGTTGAGATCATCATTGCAAAGTTCTCTGT
TCCTGAGGAACTAAATTTAAGGAAAAAATGGGATTTTGTTTTAGAGTTGGAAAAAAAGCCTGATTAAAGAGTTTC
TGCCTGTT

FIGURE 127

GTGCACGATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTT
TCCCTGGCAGCTTTCAGTGTCATCAGTGTGGTTTCTTACCTCATCCTGGCTCTTCTCTCTGTCACCATCAGCTTC
AGGATCTACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTA
GACATTACTCTGTCCTCAGAAGCTTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAAA
CTCATTATTCGTCTCTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACC
TATGTTGGTGCTGTTTTTAACGGAATCACCCTTCTAATTCTTGCTGAACTGCTCATTTTCAGTGTCCCGATTGTC
TATGAGAAGTACAAGACCCAGATTGATCACTATGTTGGCATCGCCCGAGATCAGACCAAGTCAATTGTTGAAAAG
ATCCAAGCAAAACTCCCTGGAATCGCCAAAAAAAAGGCAGAATAAGTACATGGAAACCAGAAATGCAACAGTTAC
TAAAACACCATTTAATAGTTATAACGTCGTTACTTGTACTATGAAGGAAAATACTCAGTGTCAGCTTGAGCCTGC
ATTCCAAGCTTTTTTTTTAATTTGGTGTTTTCTCCCATCCTTTCCCTTTAACCCTCAGTATCAAGCACAAAAATT
GATGGACTGATAAAAGAACTATCTTAGAACTCAGAAGAAGAAAGAATCAAATTCATAGGATAAGTCAATACCTTA
ATGGTGGTAGAGCCTTTACCTGTAGCTTGAAAGGGGAAAGATTGGAGGTAAGAGAGAAAATGAAAGAACACCTCT
GGGTCCTTCTGTCCAGTTTTCAGCACTAGTCTTACTCAGCTATCCATTATAGTTTTGCCCTTAAGAAGTCATGAT
TAACTTATGAAAAAATTATTTGGGGACAGGAGTGTGATACCTTCCTTGGTTTTTTTTTGCAGCCCTCAAATCCTA
TCTTCCTGCCCCACAATGTGAGCAGCTACCCCTGATACTCCTTTTCTTTAATGATTTAACTATCAACTTGATAAA
TAACTTATAGGTGATAGTGATAATTCCTGATTCCAAGAATGCCATCTGATAAAAAAGAATAGAAATGGAAAGTGG
GACTGAGAGGGAGTCAGCAGGCATGCTGCGGTGGCGGTCACTCCCTCTGCCACTATCCCCAGGGAAGGAAAGGCT
CCGCCATTTGGGAAAGTGGTTTCTACGTCACTGGACACCGGTTCTGAGCATTAGTTTGAGAACTCGTTCCCGAAT
GTGCTTTCCTCCCTCTCCCCTGCCCACCTCAAGTTTAATAAATAAGGTTGTACTTTTCTTACTATAAAATAAATG
TCTGTAACTGCTGTGCACTGCTGTAAACTTGTTAGAGAAAAAAATAACCTGCATGTGGGCTCCTCAGTTATTGAG
TTTTTGTGATCCTATCTCAGTCTGGGGGGGGAACATTCTCAAGAGGTGAAATACAGAAAGCCTTTTTTTCTTGATC
TTTTCCCGAGATTCAAATCTCCGATTCCCATTTGGGGGCAAGTTTTTTTCTTCACCTTCAATATGAGAATTCAGC
GAACTTGAAAGAAAAATCATCTGTGAGTTCCTTCAGGTTCTCACTCATAGTCATGATCCTTCAGAGGGAATATGC
ACTGGCGAGTTTAAAGTAAGGGCTATGATATTTGATGGTCCCAAAGTACGGCAGCTGCAAAAAGTAGTGGAAGGA
AATTGTCTACGTGTCTTGGAAAAATTAGTTAGGAATTTGGATGGGTAAAAGGTACCCTTGCCTTACTCCATCTTA
TTTTCTTAGCCCCCTTTGAGTGTTTTAACTGGTTTCATGTCCTAGTAGGAAGTGCATTCTCCATCCTCATCCTCT
GCCCTCCCAGGAAGTCAGTGATTGTCTTTTTGGGCTTCCCCTCCAAAGGACCTTCTGCAGTGGAAGTGCCACATC
CAGTTCTTTTCTTTTGTTGCTGCTGTGTTTAGATAATTGAAGAGATCTTTGTGCCACACAGGATTTTTTTTTTTT
TTAAGAAAAACCTATAGATGAAAAATTACTAATGAAACTGTGTGTACGTGTCTGTGCGTGCAACATAAAAATACA
GTAGCACCTAAGGAGCTTGAATCTTGGTTCCTGTAAAATTTCAAATTGATGTGGTATTAATAAAAAAAAAAAAAA

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FIGURE 128

GAACCCGCCCTGCTCGTGATAAGGCACAAGCAAGGGCTGCCCTGAAGGAAGCTCCAAAGAGAAAGGAGGGCAGGA
AGCCCACGGCCCACAGGGGTGTAGCCCGAGACCCACCTGCAGCCCCCAGCCCTTGCCAGGAAAGCAGCAGCCGCA
GCCATGGCGGGGATGAAGACAGCCTCCGGGGACTACATCGACTCGTCATGGGAGCTGCGGGTGTTTGTGGGAGAG
GAGGACCCAGAGGCCGAGTCGGTCACCCTGCGGGTCACTGGGGAGTCGCACATCGGCGGGGTGCTCCTGAAGATT
GTGGAGCAGATCAATCGCAAGCAGGACTGGTCAGACCATGCTATTTGGTGGGAACAGAAGAGGCAGTGGCTGCTG
CAGACCCACTGGACACTGGACAAGTACGGGATCCTGGCCGACGCACGCCTCTTCTTTGGGCCCCAGCACCGGCCC
GTCATCCTTCGGTTGCCCAACCGCCGCGCACTGCGCCTCCGTGCCAGCTTCTCCCAGCCCCTCTTCCAGGCTGTG
GCTGCCATCTGCCGCCTCCTCAGCATCCAGGCACCCCGAGGAGCTGTCCCTGCTCCGGGCTCCTGAGAAGAAGGA
G

FIGURE 129

AGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTGTCAAACTCCTGACCTCAGGTGATCCACCCACCTTGGC
CTTCCAGAGTGCTGGGATTACAGGCATGAGCCACCGCACCCAGCGTTGTTTTGTTTTTTAGTCAGCAATGGTTTT
GGATTCCAAAGCTCTCAGGACCAAGGCCCACGCATTTTGTCTAGTTGTCATGTACTCTTCAGTTTCTCAAACTGG
AATTGTCCCCCGCTATGTGTTTTTCATAACATCAGCCTCTTGCAGAGTCCAGGCAGTTTGTCTTGTGTGGGATGA
TCCATCATCTGGAGTTGTCTTTCCTGATGTTGTCCCCTCTGTTTGGTGCTGGGTGAGGCATTAGAGTTGGAAGTC
CACATGCTTGAGTTGCCTGTACTGAGCTTGTCCAAGGGAATGAGCCTAATTTCTTTCTGTTGCTTCATTCTAGGA
CTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGGGTTATACACGGAAAGCCGCTGCGCTGGAAGCG**ATG**
AAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGCTAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGA
CGGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACGACAGCCCCGAAGATGTGAAGCGACGAGCCATGGC
CGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGCGCCTTATCCTGGAACAGATGCAGAAGGACCCCCA
GGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGAAGATCCAGAAGCTGATGGATGTGGGTCTGATTGC
AATTCGG**TGA**TGACTTGTTCATCCCCCCTTCCCTTCGCCCTCATGTGGAAAGAGGAGCTGGGACCGCGGCGAGCA
GCACGGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCTCATCTCTCTATATTTATACATAACCCCGGGGAAGACAC
AGAGACTCGTACCTGCGCTGTTTGTGCCGCCGCTGCCTCTGGGCCCTCCCAGCACACGCATGGTCTCTTCACCGC
TGCCCTCGAGTTCCATGTCTCTTTCCCCTGCCCCTAGTTGCTGTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTT
TTATTTGGGGGCAGTGGGCATGTTATGGGGAGGGGAGGGGGTTCTTCCAGCCTCAGGTCCCAGCTGTCTCACGTT
GTTTATTCTGCGTCCCCTTCTCCAATAAAACAAGCCAGTTGGGCGTGGTTATATGTT

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FIGURE 130

AAAACACTAAGGGGAGCGCGCGAAGCTGAACTTGGCGCTCGATGGGGGCCGTTAGCCGCCCTAGAGCGCGCGGAG
CCGCAGAGGCGTAGCTGGACTACAACGCAGTGCATCTCGGGAGGCCAACTCGACTGGACTGGGTGAGAGGACAGA
GGTGGCTCG**ATG**GGCGGCCCGAAGGCCGGGGATCATGGCGGGAAGGCGGGCCCAGACAGGTTCAGCCCCGCCCCC
GACCCGCCGCTCCCCACCCCCCGGCCGGCCTCGCGTGCCTTCCCGCAGCACTGCCGTCCCCGGGATGCTGAGCGC
CCACCGTCTCCCCGCAGCCCCCTCATGCCCGGCTGCGAGCTGCCCGTGGGCACCTGCCCGGACATGTGCCCGGCC
GCCGAGCGCGCCCAGCGCGAAAGGGAGCACCGCCTGCACCGCTTGGAGGTGGTGCCGGGTTGCCGCCAGGACCCG
CCCCGCGCGGATCCGCAGCGCGCGGTGAAGGAGTACAGCCGACCCGCCGCCGGCAAGCCCCGGCCCCCGCCCAGC
CAGTTGCGTCCGCCCTCCGTGCTGCTGGCCACCGTGCGCTACCTGGCCGGTGAGGTGGCGGAGAGCGCCGACATC
GCCCGCGCCGAGGTGGCCAGCTTCGTGGCAGACCGCTTGCGAGCTGTGCTCCTGGACCTGGCGCTGCAGGGAGCG
GGCGACGCCGAGGCAGCTGTGGTGCTGGAGGCGGCGCTGGCCACGCTGCTGACCGTAGTGGCGCGGCTCGGGCCC
GACGCGGCGCGGGGACCCGCGGACCCGGTGCTGCTGCAGGCCCAGGTGCAGGAGGGCTTCGGCTCGCTGCGGCGC
TGCTACGCGCGGGGCGCCGGGCCGCACCCCCGCCAACCCGCCTTCCAGGGCCTCTTTCTGCTCTATAACCTGGGT
GAGTCGGGATCCTGGCGGCTGGGCAGAGCGTGGGGACAGGAGCCCACCATGACAGTGGAGGCTCGGTGGAAGCCC
TGCATGAGGTTCTACAGCTGCCTGCTGCCCTGCGCGCCTGCCCGCCCCTCCGCAAGGCCTTGGCGG**TAG**ATGCTG
CCTTCCGAGAGGGCAATGCTGCCCGCCTGTTCCGTCTGCTCCAGACCCTGCCCTACCTGCCAAGTTGCGCTGTGC
AGTGCCATGTGGGCCATGCCCGCCGGGAAGCCCTGGCCCGCTTCGCTCGTGCCTTTAGCACCCCCAAGGGCCAGA
CCTTGCCTCTGGGCTTCATGGTCAACCTCTTGGCCCTGGATGGACTCAGGGAAGCACGGGACCTGTGCCAGGCCC
ACGGGCTGCCCTTGGACGGAGAGGAGAGAGTTGTGTTCCTGAGGGGTCGCTACGTGGAGGAAGGGCTACCGCCTG
CCAGTACGTGCAAGGTGTTAGTGGAGAGCAAACTTCGAGGACGTACCCTGGAGGAGGTGGTCATGGCAGAGGAGG
AAGATGAGGGCACGGACAGACCTGGGTCCCCAGCCTGAGGAGGGAGCGTGAGCCTCCCAGAGCCCCAGGACTGGG
CCAGAGCACTTAGGTTTCTTTTTCCATGGTTTCCAGGTAATAAAAGGAACTTGTTTTGTTGGT

FIGURE 131

GCGCAGGCCTGGCGAGGCGGCGGCGGGCGGAGGCTGGGCCGGAGGGGTGGGGACGGCGAGGAGGTGGAGGCCGGC
GCTCCGCTCCGCTCCAGCTCGGTTTC**ATG**TCCCGCCAGGCGAAGGATGACTTCCTGCGGCACTACACAGTGTCGG
ACCCCAGGACTCACCCCAAGGGCTACACCGAGTACAAAGTAACCGCGCAGGTGGTGGTCTGGAAGCGGTACAGCG
ACTTCCGCAAGCTGCATGGAGACCTGGCCTACACCCACCGCAACCTCTTCCGCCGCCTCGAGGAGTTCCCTGCTT
TCCCCCGGGCCCAGGTGTTTGGCCGGTTTGAAGCCTCAGTGATCGAGGAGCGGCGAAAGGGGGCAGAGGACCTGC
TTCGCTTCACTGTGCACATACCTGCGCTCAACAACAGCCCCCAGCTCAAGGAGTTCTTCCGGGGTGGGGAGGTGA
CCCGACCCTTGGAGGTGTCCAGGGACCTACACATCCTGCCACCCCCTCTGATCCCCACCCCGCCCCCTGATGACC
CCCGGCTATCCCAACTGCTCCCTGCAGAAAGGAGGGGCCTCGAGGAATTGGAGGTGCCAGTGGACCCCCCACCAT
CCAGCCCTGCCCAGGAGGCCCTGGATCTCCTCTTTAACTGTGAGAGCACCGAGGAGGCATCTGGTTCCCCTGCCC
GAGGCCCCCTCACCGAGGCTGAGCTTGCCCTCTTCGACCCCTTCTCCAAGGAAGAAGGCGCAGCCCCCAGCCCCA
CCCATGTGGCTGAGCTGGCAACGATGGAGGTGGAGTCTGCAAGGCTGGACCAGGAACCCTGGGAGCCAGGAGGGC
AGGAGGAGGAAGAGGATGGGGAAGGAGGGCCCACCCCTGCCTACCTAAGCCAGGCCACAGAGCTCATCACCCAGG
CCCTGCGGGATGAGAAGGCAGGCGCTTACGCTGCTGCACTCCAGGGCTATCGAGATGGCGTGCACGTCTTGCTTC
AGGGAGTCCCCAGTGACCCGTTGCCTGCCCGCCAGGAAGGTGTGAAGAAGAAGGCAGCTGAGTACCTGAAGCGGG
CAGAGGAGATCCTGTGCCTGCACCTGTCTCAACTCCCACCC**TAA**CAGGGAGTGGGCCCTTCCCTGGGACTCTCGC
TCCTGCACTGCCAGCCCCTTCTCCTCTCCCCAGGGCCTGGCCCTACCTCCTGGTCTTGTAATTACAGGAGCCATT
TCTGTAGGTAACTGGACCAAGAATGAGAAAAATAATGAATTCTTAGCTCCCTGATTACACCTGCCACCTTGGAAT
CAAGGACTCACACTTCTGACCCTGCCTGTCTTTTTGGGGTTTTTTTGAGTTGGAGTCTCGCTGTGTCGCCCAGAC
TGGAGTGCAGTGGTGGGATCGCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGCAGTTCTCCTGTCTCAGCCT
CCCCAGTAGCTGAGATTGCAGGCACATGCCACCACGCCCAGCTAATATTTTGTATTTTCAGTAGGGACGGGGTTA
CACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACCCGCCTCAGTCTCCCAAAGTGCTGAG
ATTACAGGCATGAGTCACTACGCCCGGCCCATGTCTGTCTGTCTTGATGTGTGAGCAGCAGCTGTGGTCATTAAA
CCATTAGTTTACCCCTCTAGAACTGGGGTCTGCAAACTCCCACCTGCAGCCAAATCTGGCCCACCTCCTTTTTAA
TGTAAGGGCTGTGAGAGTGGTTTTTACTTTTTTTAATGATTAAAAAAATCAAAATAATATTCTGTGACAATGACA
GGTGAAATTTATATGTGACAAGTGAAAATTATATGAAATTTAAGAGTCCATAAATAAAATTTGTTGGAACAC

FIGURE 132

CTCCGGGGACC**ATG**GGGCTCCTGACCATTCTGAAGAAGATGAAGCAGAAAGAGCGGGAGCTGCGACTGCTCATGC
TTGGCCTGGACAATGCTGGAAAGACAACCATCCTGAAGAAGTTCAATGGGGAGGACATCGACACCATCTCCCCAA
CGCTGGGCTTCAACATCAAGACCCTGGAGCACCGAGGATTCAAGCTGAACATCTGGGATGTGGGTGGCCAGAAGT
CCCTGCGGTCCTACTGGCGGAACTACTTTGAGAGCACCGATGGCCTCATCTGGGTAGTGGACAGCGCAGACCGCC
AGCGCATGCAGGACTGCCAGCGGGAGCTCCAGAGCCTGCTGGTGGAGGAGCGCCTGGCCGGAGCAACCCTCCTCA
TCTTTGCTAATAAGCAGGACCTGCCTGGAGCACTGTCCTCTAACGCCATCCGCGAGGTCCTGGAGCTGGACTCCA
TCCGCAGCCACCACTGGTGCATCCAGGGCTGCAGCGCCGTCACCGGGGAGAACCTGCTGCCGGGCATCGACTGGC
TCCTGGATGACATTTCCAGCCGCATTTTCACAGCTGAC**TGA**ACCACTCCAGATGCCCCCCACCTAGCAGTCCAGG
TCCCTCAACCTTCACCAAACACTACCCATGGGGGGTTGGGAGTCAGCCGGCCAAACTAACACTCCCCCTCCTCCA
CCCCAGCCTGCTGCTGCTACTGCTGCCCGCTGCTGCTCTGTGGCCACCCGGCTCCCATGGCGGGAGGGCTGTGCC
CTGGCTGTCTCTCTGGCTCCTGACCTGGCCTTTGGCTACCATACCAAGAAGAGAGGGCTGGGCGGGGAGGAGCTG
CTACTGCTGCTACCGAGGCTGTGGGCCTCATCCTTCACTCAGTTGTGAAATAAACCGCTCCTTGCCCCG

FIGURE 133

GGAGACCGGAGGTCTGAGCTGCAGCCACTACACAGGCCTGGAATTCTACCACAGGGAATTTGCAGCACGAGTCTC
TGGAAAAAGACAACCTCGCCCTGCGGAAGGAGATCCAGTCCCTGCAGGCCGAGCTGGCGTGGTGGAGCCGGACCC
TGCACGTGCATGAGCGCCTGTGCCCC**ATG**GATTGTGCCTCCTGCTCAGCTCCAGGGCTCCTGGGCTGCTGGGACC
AGGCTGAGGGGCTCCTGGGCCCTGGCCCACAGGGACAACATGGCTGCCGGGAGCAGCTGGAGCTGTTCCAGACCC
CGGGTTCCTGTTACCCAGCTCAGCCGCTCTCTCCAGGTCCACAGCCTCATGATTCTCCCAGCCTCCTCCAGTGCC
CCCTGCCCTCACTGTCCCTTGGCCCCGCTGTGGTTGCTGAACCTCCTGTCCAGCTGTCCCCCAGCCCTCTCCTGT
TTGCCTCGCACACTGGTTCCAGCCTGCAGGGGTCTTCCTCTAAGCTCAGTGCCCTCCAGCCCAGCCTCACGGCCC
AAACTGCCCCTCCACAGCCCCTCGAGCTGGAGCATCCCACCAGAGGGAAGCTGGGGTCCTCTCCCGACAACCCTT
CCTCTGCCCTGGGGCTTGCACGTCTGCAGAGCAGGGAGCACAAACCTGCTCTCTCAGCAGCCACTTGGCAAGGGC
TGGTTGTGGATCCCAGCCCTCACCCTCTCCTGGCCTTTCCTCTGCTCTCCTCTGCTCAAGTCCACTTC**TAA**CCTG
GTCTTCGGAGCTGGGTTGGCCCCTTCTTTGGGCTCAGGAAGCAGCCTTAGCACACGGGCCTCTCCTCCCTCACTA
CTGGGTGCTGCCCTGCGTGGCTGACCAGCTGGCCCAGGATTTCACAGTCGAAAAGGAAGCCACCACTGATGCCTC
CCACTGTGACAGGCCCTGTCACCACCAATATCTTATTTCAACCTCACAGTTGACCTGAGAAATCGAGATTATCAC
TCCACTTTTTCAGACAAGGAAACTGAGGCTCAGGGAAGCCAAGTGACAAGTCCAAGGTCACGAAGACTTTCTTGG
AGCCCGAAACACCACCCTCTGCTCCTCCTTCTCCTGTCCTGGCCCAGGCATCCTAGGGGCTGAAATCCTGGAAAC
CGTGGGCTGGTGTGAGAAGGTTTGCATGCTCAGAGCAGAGAAGGGCTCTCCCCACTGCTTCGTGATTCCAGGGCC
AGAGCCATGCAGTCCCAGAAACCCCAACCTAGCTGGGGCAGGTCCAGAGTCCAAGCCCTGGTGGGTAGAGGCCAA
GCAGAAGCCCTGAAGTGGACTCTTGCTTCCCCTAGTAGTGTTTTCAGTGCCAAGAAGCTGAAACTGTGAGCTGGA
GTTGGGGAGAGGTCTGGAAGAGGACCATCTGGGATTTCTACAGCCTGGGTACCCATAGCCACACCAAGGCTTCTG
GGAGATTCTGCAGGGTCAGCTTTCCAGGCTGTTCCCAAATAGCTCCCTGCCTCCCCACTGCCCCTAAAGCCACAG
CAGAAGAGCCATTCATCTCATAAACAAAAAGGAAGAGGAAAGAATGAGGAAGGACCCTGTGCAAGGTTATTTGCA
GGCAGGGATGGGCTTGTACCTGACAGCACCCACCCCTGTGTGGCCCCCAGGCCCTCATCACCCTCAGACCCCTCC
TAAGCAGTTCCCTCATTGCTCTTTGGACTAGGCTGACAGCAGGAAGAGCAGGGCCCATGACCGGGTGGAAGTTCA
GTTTTGGTGTCTGCTTCAAGAGGGGGTTTTACACTCTGATTCCAGGACAAGCACTCTGAGGCGGGTGGGGGAGAG
AAACCCTGGCTCTTCACCCAGGTTTCACACACATGTAAATGAAACACTATGTTAGTATCTAACACACTCCTGGAT
ACAGAACACAAGTCTTGGCACATATGTGATGGAAATAAAGTGTTTTGCAATCTTT

FIGURE 134

ATGGAGGAGCGTGACCAGACTTGCAGTTTAGAAAGAGTGTTCTCGCTGCTGCATGGAGACCTGGAAGGTGCCCAG
GGTCTGGGCACTCTCACAGCGTCTCCTGGCAGCCTGGCTGTGAAGTGGGCCCCACGCTGTCCCCACGCTGGAGCT
CTCAAGTGGCAGTTTGAAGCAGCACTGTGCTGGCTGCAGCGCGACATATCCTGCAGGCTCATGGGCCCCTGGGGG
GAGCCCCCTGCTCACTTCCTTCAAGGGCTCCGTGCTAGTGCTGGGGGTCCAGTGTGCAGCACCTCCCTCCGCCTG
CTGCATCTAGAAACCCAGCCCTCCTCAGACCTCCGCTGTGAGCTGGGGATTCCAGTCCACACATATGCCATCATC
CGAGTTACTCAGGGGCTGCCTCGTAAATTATTATCGACCCACTGCTGCCCGGGCTGGAGAAAGAAGGAGCTAAGC
CCTGTGTACCCACTGCCTTCATCTCCTGAAACAGCCCCCAGGAGAGTGGTCTGTGGACCCCACAGTGCAGAGAAG
CCAGCCCTGGGCAGGCGTCCAGCCTCCGGTCATTCAGACGTGCACAGCGTGCTCTGTGTACTGGGTGGACAGGGT
GAGGGACCACAAGGACCAGGCCAAGCATGCAGCATCATGAGATCATCACAGGAGAGTGAATATGAGGACAAGGAC
CCGTGGCTGCATGTCCTGCAGGGTGGCTGGGGCCGCGGGCAAGGCCAGCCTTGCAGGCTGCAGCGAGTGAAGCTG
CAGGATGCTGGTACCAGCTGCGCCCATTTCTTGGGGACTGCGTGCTTGCCTCCAAGCCCAGAGCTCCAGCAAGGG
GTGGCAACTGTGGAGAGCCCCGTGGTTGGGCCTGGCCTCCCTGCCAGTCTCCCCCGCCCTCCGTCCCCGGAAGGC
AGGCAGCCCGCCGCCCCCAGAGAAATATTAGCACGAATTCGATTTGGGCGCCTGCCCACAGTGCAGGGAGGGGGC
TTCGCGGGAAAGAACAAATCCATGTTCCTTGTCGGAGTCTACAGACCTCTGTCTCCGCCATTCACCACCCTTAAC
CGCACTGGCATAAAGATATGTCCTGGAACCTGCCAAACTCCCACTCTGAGTTCTCGCTGTCCCCTCTGCCGAGAC
AGTCTCCACGGCCAGCTATGTGTCCTCAAGCTGGCCCCTGCCCCCACACCCCCTGCTCAGAGAGGCCTCCCCCCC
TGCAGTCACCCGTCTTTTGGGTTTCCTTGTGGCCTGTCTCCCCAGCTTGGGGTGCCCTCCCTGAGGGCAAAGCCT
GGCTCCCCCTTTGCTGCTGGGGCACCTCAAAGCTCGGTGAAGAGCACATATTTCCCAACCAACCCTTCAACCCCA
GAGCCCCTAAGTGGCTGGGCTGGATCCGGGTCCCCAACTGCATCTCTGGCCCTGCAAGGCTCTGGGGGCTGTGGG
CCCCCCTCCCCAACACAGGGCTGGATGCGGCTGCTGGGTTTCTCAGTGGGAAGCTCCAGTGTTTACCCTGCCGAG
GCCCAGCTTTTACTCCCCAAGGAGTGTGTTTGGGAGGCGAGAACCCACGCGCACGCACACTCTCGCATGCCATCT
GATGTGCCAGACCTCACAGGCTCCCGGCCCAGACGTACATGTGCACCCCCAGCGCTGGCTCTGGCCTGCACCTGC
CGTACCTGGGCCAGGCCAGTGGCCTCAGCACGGCAGGCAACTGGCACTAATTTTGAATTAGTTAAGTTAATTAGG
CCGGCATCACCCCTGTACCCATCTGTGGGTTGGGTGCAGAACCAGCCCCTCCATCCCACAGCAGCTGAGGATGAA
GCAGACCCTGCTCCCGACCCCCAAGTCCCCCCAGGCCCAGCCACAGCTCCCACTCACTCCCACCCCTGGCTGCCA
GCCGGGGCAGGCCCCAGCGGTTATGAGTTCAGCAGTCGATTCGATTCGGGCTCACATCATCTTGTCTGCCGGGAG
GATTTAGTGCGCGCGGCGGTCAATAGTGCGTTTGTTTTGCTATCGACCTGCTGGAGCGGCTCAGGAGCCAGCCCG
TTCCCCTCGGCAGCTGAGGCCTCTCCAGACTGCAGAGCCGGGACCTAG

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FIGURE 135

ATGAATGCAGCACTGAGCTCTGTTTGCCCTCTAAGCTTGTCCCCAGAAAAAACAAGATATACCCTAAATATGCAC
GATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTTTCCCTG
GCAGCTTTCAGTGTCATCAGTGTGGTTTCTTACCTCATCCTGGCTCTTCTCTCTGTCACCATCAGCTTCAGGATC
TACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTAGACATT
ACTCTGTCCTCAGAAGCTTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAAACTCATT
ATTCGTCTCTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACCTATGTT
GGTGCTGTTTTTAACGGAATCACCCTTCTAATTCTTGCTGAACTGCTCATTTTCAGTGTCCCGATTGTCTATGAG
AAGTACAAGGAGATGGGCCACTAA

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FIGURE 136

GGCCTGAGGGCGCCGCACTCGACTGCTTCGAGGTGACGCTGAAATGCGAGGAAGGGGAGGACGAGGAGGAGGCCA
TGGTGGTGGCCGTAATTCCGCGGCCCGAGCCGATGCTCAGAGTGACCCAACAGGAGAAGACCCCACCGCCTAGAC
CCAGCCCGCTAGAGGCAGGCAGTGATGGCTGTGAGGAGCCGAAGCAGCAGGTGTCTTGGGAGCAGGAGTTCCTGG
TGGGCAGCAGCCCAGGAGGCAGCGGGCGGGCACTGTGCATGGTGTGTGGCGCTGAGATCCGGGCACCCTCGGCCG
ACACAGCTCGCTCGCACATCTTGGAGCAGCACCCTCACACCTTGGACCTGAGCCCTTCTGAGAAGAGCAATATCC
TGGAGGCCTGGAGTGAAGGGGTGGCCCTCTTGCAAGACGTGAGAGCTGAGCAGCCGTCCCCACCCAACTCAGACT
CGGGCCAGGATGCCCACCCAGACCCAGACGCCAACCCAGACGCTGCCAGAATGCCAGCCGAAATCGTCGTTCTCC
TTGACTCTGAGGATAACCCATCCCTCCCTAAAAGGAGCAGGCCCAGGGGACTCCGCCCCCTCGAGCTTCCTGCTG
TCCCTGCCACAGAGCCAGGAAATAAGAAGCCCCGTGGTCAGAGATGGAAGGAACCCCCAGGGGAAGAGCCAGTCA
GAAAGAAAAGAGGCAGACCTATGACCAAAAACCTGGACCCTGACCCAGAGCCCCCATCGCCAGACTCGCCCACGG
AGACTTTCGCAGCACCAGCCGAGGTCCGACACTTCACTGACGGCAGCTTCCCCGCCGGCTTCGTCTTGCAGCTCT
TCTCCCACACCCAGCTCAGGGGCCCAGACAGCAAGGACTCACCCAAAGACAGGGAAGTGGCAGAAGGAGGCCTTC
CCCGGGCGGAGAGCCCCTCTCCAGCTCCCCCTCCGGGGCTCCGCGGGACACTGGATCTCCAGGTTATCCGCGTGC
GGATGGAGGAGCCCCCAGCGGTCAGCCTCCTGCAAGACTGGTCCAGGCACCCCCAGGGCACCAAGCGTGTGGGAG
CAGGTGACACCTCAGACTGGCCCACAGTTCTGTCAGAATCCAGCACCACTGTGGCAGGGAAGCCGGAAAAAGGGA
ATGGAGTGTAAATTCTTGCTTTCCTGGGGAGGGAGGGAGGGATGAGGCAGCGTCCCCCAGTGGCTTATAACTCAG
AGCTGCCTGGCTCACCCACCTGGTGGAGAGAGTAGAAACAGGTGCCAGGGCAGGAGGGGGCTGGGGCAGCATCCA
CTGTTATTTCGGGGCACTGGAAAGTGTCTGTTCCTGGCCAGGCCTGAGGTCGGCGAGGGTGGCTGAGGCTGTTGT
GCAGTAGGGCACTGGGCCTGTGGAGAACACCTACCCCAGTCCTTCGCTGACCCCCACCTCTGTTTGTCCCCCATG
ACCTCCTCCCACCCTCCCCCTGCTCCCCACCATTCTCCCTTGGCACAGTGCCTTACACAAGAGTGGTCATAAGGG
GGTTTGAACTGAGTCCCACTACCTCGGGGGACACCTCTCCTCCCCACTTGTTCAGGCTTCTAAACCAGGAGGCCT
CCATTACCTCTTCCTGTCCCACCCCTGCAGAGGCCTGAAGCTGGGCCTGGGCACCCCATTCACTCCCGTTCTCAT
TTACATCTGTTTTCCTGTTGTATATATCACCTTTGTTGACAATAAATTATTTTTTTTTATT

FIGURE 137

CCCACCTTGGGACACCTTGACTCCAAGCCCAGCAGTAAGTCCAACATGATTCGGGGCCGCAACTCAGCCACCTCT
GCTGATGAGCAGCCCCACATTGGAAACTACCGGCTCCTCAAGACCATTGGCAAGGGTAATTTTGCCAAGGTGAAG
TTGGCCCGACACATCCTGACTGGGAAAGAGGTAGCTGTGAAGATCATTGACAAGACTCAACTGAACTCCTCCAGC
CTCCAGAAACTATTCCGCGAAGTAAGAATAATGAAGGTTTTGAATCATCCCAACATAGTTAAATTATTTGAAGTG
ATTGAGACTGAGAAAACGCTCTACCTTGTCATGGAGTACGCTAGTGGCGGAGAGGTATTTGATTACCTAGTGGCT
CATGGCAGGATGAAAGAAAAAGAGGCTCGAGCCAAATTCCGCCAGATAGTGTCTGCTGTGCAGTACTGTCACCAG
AAGTTTATTGTCCATAGAGACTTAAAGGCAGAAAACCTGCTCTTGGATGCTGATATGAACATCAAGATTGCAGAC
TTTGGCTTCAGCAATGAATTCACCTTTGGGAACAAGCTGGACACCTTCTGTGGCAGTCCCCCTTATGCTGCCCCA
GAACTCTTCCAGGGCAAAAAATATGATGGACCCGAGGTGGATGTGTGGAGCCTAGGAGTTATCCTCTATACACTG
GTCAGCGGATCCCTGCCTTTTGATGGACAGAACCTCAAGGAGCTGCGGGAACGGGTACTGAGGGGAAAATACCGT
ATTCCATTCTACATGTCCACGGACTGTGAAAACCTGCTTAAGAAATTTCTCATTCTTAATCCCAGCAAGAGAGGC
ACTTTAGAGCAAATCATGAAAGATCGATGGATGAATGTGGGTCACGAAGATGATGAACTAAAGCCTTACGTGGAG
CCACTCCCTGACTACAAGGACCCCCGGCGGACAGAGCTGATGGTGTCCATGGGTTATACACGGGAAGAGATCCAG
GACTCGCTGGTGGGCCAGAGATACAACGAGGTGATGGCCACCTATCTGCTCCTGGGCTACAAGAGCTCCGAGCTG
GAAGGCGACACCATCACCCTGAAACCCCGGCCTTCAGCTGATCTGACCAATAGCAGCGCCCCATCCCCATCCCAC
AAGGTACAGCGCAGCGTGTCGGCCAATCCCAAGCAGCGGCGCTTCAGCGACCAGGCTGGTCCTGCCATTCCCACC
TCTAATTCTTACTCTAAGAAGACTCAGAGTAACAACGCAGAAAATAAGCGGCCTGAGGAGGACCGGGAGTCAGGG
CGGAAAGCCAGCAGCACAGCCAAGGTGCCTGCCAGCCCCCTGCCCGGTCTGGAGAGGAAGAAGACCACCCCAACC
CCCTCCACGAACAGCGTCCTCTCCACCAGCACAAATCGAAGCAGGAATTCCCCACTTTTGGAGCGGGCCAGCCTC
GGCCAGGCCTCCATCCAGAATGGCAAAGACAGCCTAACCATGCCAGGGTCCCGGGCCTCCACGGCTTCTGCTTCT
GCCGCAGTCTCTGCGGCCCGGCCCCGCCAGCACCAGAAATCCATGTCGGCCTCCGTGCACCCCAACAAGGCCTCT
GGGCTGCCCCCCACGGAGAGTAACTGTGAGGTGCCGCGGCCCAGCACAGCCCCCCAGCGTGTCCCTGTTGCCTCC
CCATCCGCCCACAACATCAGCAGCAGTGGTGGAGCCCCAGACCGAACTAACTTCCCCCGGGGGTGTGTCCAGCCGA
AGCACCTTCCATGCTGGGCAGCTCCGACAGGTGCGGGACCAGCAGAATTTGCCCTACGGTGTGACCCCAGCCTCT
CCCTCTGGCCACAGCCAGGGCCGGCGGGGGGCCTCTGGGAGCATCTTCAGCAAGTTCACCTCCAAGTTTGTACGC
AGAAATCTGTCTTTCAGGTTTGCCAGAAGGAACCTGAATGAACCTGAAAGCAAAGACCGAGTGGAGACGCTCAGA
CCTCACGTGGTGGGCAGTGGCGGCAACGACAAAGAAAAGGAAGAATTTCGGGAGGCCAAGCCCCGCTCCCTCCGC
TTCACGTGGAGTATGAAGACCACGAGCTCCATGGAGCCCAACGAGATGATGCGGGAGATCCGCAAGGTGCTGGAC
GCGAACAGCTGCCAGAGCGAGCTGCATGAGAAGTACATGCTGCTGTGCATGCACGGCACGCCGGGCCACGAGGAC
TTCGTGCAGTGGGAGATGGAGGTGTGCAAACTGCCGCGGCTCTCTCTCAACGGGGTTCGATTTAAGCGGATATCG
GGCACCTCCATGGCCTTCAAAAACATTGCCTCCAAAATAGCCAACGAGCTGAAGCTTTAACAGGCTGCCAGGAGC
GGGGGCGGCGGGGGGCGGGCCAGCTGGACGGGCTGCCGGCCGCTGCGCCGCCCCACCTGGGCGAGACTGCAGCGA
TGGATTGGTGTGTCTCCCCTGCTGGCACTTCTCCCCTCCCTGGCCCTTCTCAGTTTTCTCTTACATGTTTGTGGG
GGGTGGGAGATTGTTNTCCAGCACCCCACATTCACCCCTGCCCAGAGATTCCCCCTTCTCCTCTCCCCTACTGGA
GGCAAAGGAAGGGGAGGGTGGATGGGGGGGCAGGGCTCCCCCTCGGTACTGCGGTTGCACAGAGTATTTCGCCTA
AACCAAGAAATTTTTTATTACCAAAAAG

FIGURE 138

GCGCCCAGCCGCTGAACGGCGTGGGCAGGTGGGCGGTGGGGTTCCAGGGCGCCCCGAGGACAGGGGGCCCCGACT
TCAGGGGAACCCCAACCCTGAGGGGCGTACATAGTAATCACGCCCCAGCCGCACCGGACCTTGCGCTCATCCCTT
GCGTCCCCCACTTCTGCACAAACTTTTCTGACGCCCTGGCTCGTGGGGGTCGTGGAGAGCGCTGGGGCTACCAGG
TGGGCTCCCACCCCGCCGGACCCTAGCCACGCTGACCTCCTGCCTCTCCTAACCTCAGTGGCGACCTCTCCAGGC
CGGGCCGGGCTCGGCACTCGGAGCGAGTGCGGCAACCACTGTCGCTCTCCGAAGGCTCCTGCGCCCCCCGGGGCA
GCTGGGCGGGGTA**ATG**CCCTCAGTGATGGAGAAGCCGAGCGCGGGCTCTGGGATCCTGTCCCGTAGCCGGGCCAA
GACGGTGCCCAACGGCGGACAGCCCCACTCGGAGGATGACAGCAGCGAGGAGGAGCACTCGCACGTCCCTTCTGT
GGCTGCAGACAGCATGATCCGCGTTGGAACCAATTACCAGGCCGTAATTCCGGAGTGCAAGCCTGAGAGCCCCGC
ACGCTACAGCAACAAGGAGCTGAAGGGGATGCTGGTGTGGTCACCCAACCACTGTGTGTCAGATGCCAAGCTTGA
CAAGTACATTGCGATGGCCAAGGAGAAGCATGGCTACAACATTGAGCAGGCGCTGGGCATGCTTCTGTGGCATAA
GCACGATGTGGAGAAGTCGCTGGCCGACCTGGCCAACTTCACCCCATTCCCTGACGAGTGGACAGTAGAGGACAA
GGTGCTGTTTGAACAGGCCTTTGGCTTCCATGGCAAATGCTTCCAGCGGATCCAGCAGATGCTGCCTGACAAGTT
GATTCCCAGCCTGGTGAAATACTACTACTCTTGGAAGAAGACCCGCAGCCGAACTAGTGTGATGGACAGACAGGC
CCGGCGGCTGGGGGGCCGCAAGGACAAAGAAGACAGTGATGAGCTCGAAGAGGGTCGAGGAGGCGTGAGTGAGGG
AGAGCCCGATCCTGCAGATCCCAAGAGAGAGCCTCTACCCTCTCGGCCCCTGAATGCACGCCCAGGCCCTGGGAA
AAAGGAGGTCCAGGTGTCTCAGTACCGCCACCATCCCTTGCGAACCCGGCGTCGCCCACCCAAGGGCATGTACCT
GAGCCCTGAAGGCCTCACGGCAGTGTCAGGAAGCCCGGACCTTGCCAACCTCACGCTCCGAGGTCTTGACTCTCA
GCTCATCTCCCTCAAGCGCCAGGTACAGAGCATGAAGCAGACGAACAGCAGCCTGCGCCAAGCCCTGGAGGGCGG
TATTGATCCACTACGCCCCCCGGAGGCCAACACCAAGTTCAACTCCCGCTGGACCACAGATGAGCAGCTTTTGGC
TGTTCAAGCCATCCGTAGGTATGGCAAAGACTTTGGGGCTATTGCAGAGGTGATTGGGAACAAGACTCTGACCCA
GGTGAAGACTTTCTTTGTGAGCTACCGGCGCCGCTTCAATCTGGAGGAGGTGCTGCAGGAATGGGAGGCTGAGCA
GGATGGGGCCCCTGGAGCCCCAGTCCCCATGGAGGAGGCTAGGAGAGGGGCTCCATTGCCAGCCCCAGCCCTAGA
GGAAGATGATGAGGTCCAGATTACATCGGTCTCCACGTCCGTGCCCCGATCAGTGCCCCCTGCGCCACCACCCCC
TCCACCTCCCACCTCGCTGTCCCAGCCACCCCCGCTGCTGAGGCCACCTTTGCCCACGGCTCCCACTCTGCTCCG
ACAGCCACCCCCACTGCAGCAGGGCCGCTTCCTCCAGCCCCGGCTGGCCCCCAACCAGCCCCCACCGCCTCTCAT
CCGCCCCGCTCTGGCTGCCCCCCGCCACAGCGCCCGCCCTGGCCCTCAGCCCCCACCCACCCTGATTGGAACCCC
TCTGGAGCCCCCAGCACCCTCACTC**TGA**GCCCTGACGTCCTCCACCAACCACGGGCTCCAGGACCCCTTTGCTGG
CCATCCCCAGGCATCTCTGGTGTCACTGAGGACAGAAGGGACTAGGGCTCTGGCGGGGTCTTTGTAAGACCAGAG
TTTCGGACAGCCCAGCCCCGCCCTTTGGGTTCTGCATGTGTTCCTGGCAGCTGGGCCTGTCTCCTGGGGCCATGG
CCGGGCTCAGGGGCCTTTGAGCTGGCCTGAGGGCACTTTCGCTTCCTGGCCGGTACTGGAATGGCTGTGTCCTAG
TCTGCTGGGGCTTGGCCTCTGGGTCCTGCCCTTTGTGTGTCCGGGGTAGTGACCTTAGCGTGGAGTGGGGAGAGG
GCAGTTGGGTGTGCTGGCTGTTCTCATTCCTCTTTCCCTTCTTTTAGCAATAAGTCTGGGGTGAGGTGGGGAGGG
AGGCTGCAGGGGGGGAGGTGGGCAGAGGGGCCTTACAGCAGCAGAGGCTGGAAGAGAAGCTCTGTCTTCAGGGGC
CAGCTGGGAAATGCTAAGGAGCTGAGGGTGCCCACCAAGCCCACCTTCCAGAAACTTGGAGAAATGGGGGTTGGG
AACTTATGCAGACATGGATTTATTTTTCAACATTTTTTAAAAATTAAAAAAAATAAAATCTAA

FIGURE 139

GCTGCTGACTGGCGGGCCGCCAGGCGCGTGCGTAGAGACGCCCACACGCCCGCTGATGCGCACGCGCCCTGGGCC
GCGCGTGCGCGCGTGGGGTTCCGGAATGAGCCGGGGAAAGCAAGGGGAAGGTTTGGGGTTGGCTCCCGGTTTCGC
GCATGCGTGCACTGCACAAACCATTTGGCGGGTTTTTCCGGCCACTCAGTTCTGCCACCGTCACTGAGAAGCTCA
GCGGTAGCTTTTGGGAAGCAGGACGTTCTCACCAGGAGAGCGTCCTCTCGAGATTTCTGCTCCCTCCATTCAGGG
CGTTTGGGAGCCACCCCTTCATTTTTTAAAAAAAGTATTTCTCTGTGACCGACGGCCGGGGCCTTCTGACGGTCT
GAGGTCTTGCTTGGGCCAGTCACCTCCTGTCACGGTCCGCGGAGGGGGGAAGGATAAGAGGGCGAGGAGCTCATC
GCTCGCCACCCCCGTGGGCTTCTTGGGCGCAGGTCGGAGCTGGGTGGGCCGGCTCCCCGGCCCCTGGCTTGGGCG
ACC**ATG**TCCGCATCCGCCCAGCAGCTGGCGGAGGAGCTGCAGATCTTCGGCCTAGACTGCGAGGAGGCTCTAATT
GAGAAATTGGTAGAGCTTTGTGTTCAGTATGGACAGAATGAGGAGGGAATGGTAGGCGAGCTTATAGCCTTCTGC
ACCAGCACACATAAAGTTGGCCTTACCTCAGAGATCCTGAACTCTTTTGAGCATGAGTTTCTGAGCAAAAGATTA
TCGAAAGCCAGGCATAGTACCTGCAAGGACAGTGGCCATGCAGGAGCTAGAGACATTGTTTCCATTCAAGAGCTA
ATTGAAGTGGAAGAAGAAGAGGAAATCCTCTTGAACTCTTACACCACACCTTCAAAGGGTTCTCAGAAGCGAGCT
ATCTCTACCCCAGAAACCCCCCTAACAAAAAGGAGTGTGTCAACTCGTAGCCCCCATCAGCTACTCTCACCGTCA
AGTTTCTCTCCAAGTGCTACTCCCTCCCAGAAATACAACTCACGAAGTAACCGAGGAGAAGTGGTTACCTCCTTC
GGCTTAGCACAGGGAGTATCTTGGTCTGGGAGAGGAGGAGCTGGAAACATCAGCCTGAAGGTCTTGGGATGTCCA
GAGGCACTAACTGGGAGCTACAAATCCATGTTTCAGAAGCTCCCAGACATTCGAGAAGTTCTGACCTGTAAGATA
GAAGAACTTGGCAGCGAACTCAAGGAACATTACAAGATTGAAGCTTTCACTCCTTTGCTAGCCCCAGCACAGGAG
CCTGTCACTCTGCTGGGCCAGATTGGCTGTGATAGCAACGGGAAGCTGAACAACAAGTCAGTGATTCTCGAGGGA
GACCGGGAACATTCCTCGGGTGCTCAAATTCCAGTGGATTTATCTGAGCTTAAGGAATATTCTCTGTTTCCTGGA
CAGGTTGTAATTATGGAAGGAATCAACACCACTGGTAGGAAACTTGTTGCCACCAAACTCTACGAGGGTGTGCCA
CTTCCATTTTATCAGCCCACTGAAGAGGATGCAGACTTTGAGCAAAGCATGGTCCTGGTTGCCTGTGGACCATAC
ACCACATCTGACAGCATCACGTATGACCCCCTGCTTGACCTGATTGCTGTCATCAACCATGACCGGCCAGATGTC
TGCATCCTGTTTGGCCCTTTCCTGGATGCTAAGCATGAACAGGTGGAGAATTGTCTACTGACAAGTCCATTTGAA
GACATTTTCAAGCAGTGTCTACGAACAATTATTGAAGGCACAAGAAGCTCCGGCTCCCACCTTGTCTTTGTCCCG
TCATTGAGAGATGTGCACCATGAGCCTGTGTACCCCCAGCCGCCTTTCAGCTACTCCGATCTGTCTCGAGAGGAC
AAAAAGCAAGTACAGTTTGTGTCCGAGCCCTGCAGCCTCTCCATAAACGGAGTGATCTTCGGCTTGACATCCACA
GATCTGCTTTTCCACCTGGGGGCCGAGGAGATCAGTAGTTCTTCCGGAACTTCAGACAGATTCAGCCGAATACTC
AAGCACATCTTGACCCAGAGGAGCTACTACCCACTCTACCCGCCCCAAGAAGACATGGCCATTGACTATGAGTCG
TTCTATGTTTACGCACAGCTGCCTGTCACCCCAGATGTCCTCATCATCCCGTCAGAGCTGAGGTACTTCGTGAAG
GATGTCCTCGGCTGTGTCTGTGTGAACCCTGGGCGCCTTACCAAAGGGCAGGTGGGAGGCACCTTCGCCCGACTC
TACCTTAGGAGGCCGGCAGCGGACGGGGCAGAGAGGCAGAGCCCATGCATTGCTGTGCAGGTCGTCAGGATC**TGA**

GGCTTCTGTCCTCTGCTGTTCTCTGCTGTGTGGGCCCTTAAAGTCTTAGCCAAGAGCCAAGACATAGCCCTGTGA
CAAGGTGAACAGTTGGGTGGGAAAGGAGAGAGGAGCCAGCCAGGGAGGGGCAGCTGCAGTGACCAGGCCCAGCAG
GGAGGACTTGTGCAGCCGGGCCTGCCTCTGAGTGGTGCCTCTCCTGGAAGGAAGCTCTTGCTTCTCAGTCCATGC
TCCGTGTCCAGAAGTAAGCCAGCTGTGGATCCCGCCCACTCAGAAAAGGCGAGAAGGCTTTGTGATTTTCTACAT
GAATCAAACACAGAAACAACTTTTGGAGAAATTAAATTCTGAGTGTGACTTCTGAGTTTGACCTTTCTTCTATTT
TCTTTTATTTATTTATTTTGTTTTTAGACGGAGTCTCGATCTGTCGCCCAGGCTGGAGTGCAGTGGTGAGATCTC
GGCTCACTGCAAGCTCTGCCGCCCGGGTTCATGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGA

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FIGURE 140

AAGATGGCGGCTGTGGTGGAGAATGTAGTGAAGCTCCTTGGGGAGCAGTACTACAAAGATGCCATGGAGCAGTGC
CACAATTACAATGCTCGCCTCTGTGCTGAGCGCAGCGTGCGCCTGCCTTTCTTGGACTCACAGACCGGAGTAGCC
CAGAGCAATTGTTACATCTGGATGGAAAAGCGACACCGGGGTCCAGGATTGGCCTCCGGACAGCTGTACTCCTAC
CCTGCCCGGCGCTGGCGGAAAAAGCGGCGAGCCCATCCCCCTGAGGATCCACGACTTTCCTTCCCATCTATTAAG
CCAGACACAGACCAGACCCTGAAGAAGGAGGGGCTGATCTCTCAGGATGGCAGTAGTTTAGAGGCTCTGTTGCGC
ACTGACCCCCTGGAGAAGCGAGGTGCCCCGGATCCCCGAGTTGATGATGACAGCCTGGGCGAGTTTCCTGTGACC
AACAGTCGAGCGCGAAAGCGGATCCTAGAACCAGATGACTTCCTGGATGACCTCGATGATGAAGACTATGAAGAA
GATACTCCCAAGCGTCGGGGAAAGGGGAAATCCAAGGGTAAGGGTGTGGGCAGTGCCCGTAAGAAGCTGGATGCT
TCCATCCTGGAGGACCGGGATAAGCCCTATGCCTGTGACATTTGTGGAAAACGTTACAAGAACCGACCAGGCCTC
AGTTACCACTATGCCCACTCCCACTTGGCTGAGGAGGAGGGCGAGGACAAGGAAGACTCTCAACCACCCACTCCT
GTTTCCCAGAGGTCTGAGGAGCAGAAATCCAAAAAGGGTCCTGATGGATTGGCCTTGCCCAACAACTACTGTGAC
TTCTGCCTGGGGGACTCAAAGATTAACAAGAAGACGGGACAACCCGAGGAGCTGGTGTCCTGTTCTGACTGTGGC
CGCTCAGGGCATCCATCTTGCCTCCAATTTACCCCCGTGATGATGGCGGCAGTGAAGACATACCGCTGGCAGTGC
ATCGAGTGCAAATGTTGCAATATCTGCGGCACCTCCGAGAATGACGACCAGTTGCTCTTCTGTGATGACTGCGAT
CGTGGCTACCACATGTACTGTCTCACCCCGTCCATGTCTGAGCCCCCTGAAGGAAGTTGGAGCTGCCACCTGTGT
CTGGACCTGTTGAAAGAGAAAGCTTCCATCTACCAGAACCAGAACTCCTCTTGATGTGGCCACCCACCTGCTCCC
CGACATATCTAAGGCTGTTTCTCTCCTCCACTTCATATTTCATACCCATCTTTCCCTTCTTCCTCCTCTCCTTCA
CAAATCCAGAGAACCTTGGGGTGGTTGTGCCAGCCTGCCTTTGGCAGCTGCAAGCTGAGGTGGCAGCTCTGACCA
CCTCTGGCCCCAGGCCCTCAGGGAGAAAGGAGCAACACACTGCCCCTAGGCGTGCGTGTGGCCCAGTTTCTCTCT
GCTCTCCATTAAGTGCATTCACTCTGCTTGCCTTGGGCCCAGCCCCTGGTGATCACAGGGTTCAAACAGTGTCCT
CCTAGAAAGAGTGGGAGAGCAGCTCACTTCTCTGTGTTCTGCCTCCCCTCTGGTCTCCAGAGTTTTCCTGTCCTC
TAGAGGCAAGCCAGGCCAGGGAGCTGGGAGCGAGCAAGCTGAGGCCACGTCCACAAGGAGCTTTTCATGCCCCTG
TGCCGCATAGCCTCACCTCTTTCCTCCAGAGTGGCTCTCTGCGGCCCTGTGTTCCTGCTACAGAGTGTTCTTTTC
TGGAGTCAGGATGTTCTCGGTCACCCTCCTGGTTCTGCCCTGTCCCATTCCACCCCACCCCAGGGGGAACAGTAG
CTTCACCTTGTTATTCCCATTGCTCTCCTGGCTCACTCTTACGGTCGGTCTCCAGTGACTGAAGCATTCCCCACC
CTTGGAATTTCTCATCTTCTGCCTCCCTTCCTACTCCTTTTGGTTTTGTGGGGAGAGGGGAAGGATCAGGGGGCC
AGGCCAGCAGCTCGGGGGCCACAAGGAGATGGATAATGTGCCTGTTTTTTAACACAACAAAAAAGCCTACCTCCA
AAATCCCCTTTTTGTTCTTCCTGGACCTGGGCATTCAGCCTCCTGCTCTTAACTGAATTGGGAGCCTCTGCCACC
TGCCCCGTGTATCCTGGCTCTCAGCTCATGGGGAAGCCACATAGACATCCCTTTCTTCCCTTGCACGCTCGCTAG
CAGCTGGTAAGGTCTTCACACCCTGATTCCTCAAGTTTTCTGCTTAGTGGCACTGACATTAAGTAGTGGGGGGAC
AGTCCATGCCAGGACACCCTGGAGTAGCCTTCCCCCTTGGCCGTGGGCAGGCCCTAACTCACTGTCGCTTTGGAG
TTGAGGTGTCTTTTCTTTTTCTTTCTTTAGTTCCTGTATTCTAAACATTAGTAAAAATAAATGTTTTTACACAGA

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FIGURE 141

GGGCTCGGGAGCCGGGCTGGGGGCAGGGGCTGGAGCCGCGGGACCAGCGCCTGAGGTGCCCCGGAGAGGCCATGG
AGCTGAGCAGCAAGAAGAAGCTTCACGCCCTGTCCCTGGCCGAGAAGATCCAGGTGCTGGAACTCCTGGATGAGT
CCAAGATGTCCCAGTCGGAGGTGGCCCGGCGCTTCCAGGTTTCCCAGCCCCAGATCTCGCGCATCTGCAAGAATA
AGGAGAAGCTGCTGGCGGACTGGTGCAGCGGCACAGCCAACCGAGAGCGCAAGCGCAAGCGGGAGTCCAAGTACA
GCGGGATCGACGAGGCTCTGCTCTGCTGGTACCACATTGCCCGGGCCAAGGCCTGGGACGTGACGGGGCCCATGC
TGCTCCACAAAGCCAAGGAGCTGGCCGATATCATGGGCCAGGACTTCGTGCCCAGCATCGGCTGGCTGGTCCGCT
GGAAACGCCGAAACAACGTCGGCTTTGGGGCCCGCCATGTTCTTGCGCCTTCATTCCCCCCTGAGCCACCTCCCC
CGGGGCTCACATCCCAGGCTCAGCTGCCTCTTTCCCTAAAAGACTTCTCTCCAGAGGACGTGTTTGGCTGTGCTG
AATTGCCCTTGCTGTATCGGGCAGTGCCCGGCAGCTTTGGTGCATGTGATCAAGTACAGGTGCTGCTGTGTGCCA
ACAGCAGGGGCACCGAGAAGCGGCGGGTACTGCTGGGTGGGCTCCAGGCTGCCCCGAGATGCTTCTTTGGGATCC
GCAGTGAGGCTCTGCCTGCCTCCTACCACCCGGACCTGGGCATCCCCTGGTTAGAGTGGTTGGCACAGTTTGACC
GGGACATGGGACAGCAGGGCCGACAGGTGGCTTTGCTGCTGGCTGCCCGAGTGGTGGAGGAGCTGGCAGGCCTGC
CTGGGCTCTACCACGTGAAGCTCTTGCCTCTGGCCGCCTCTAGCACCACGCCTCCCCTGCCCAGCTCAGTGGTCC
GGGCCTTTAAGGCCCATTACCGACACCGGCTGTTGGGCAAACTGGCTGCCATCCAAAGCGAGAGGGATGGCACCT
CGCTGGCCGAGGCCGGGGCAGGCATCACCGTGCTGGACGCCCTGCACGTGGCGTCTGCCGCCTGGGCCAAGGTGC
CTCCTCAGCTCATTTTCAGCAGCTTCATTCAAGAAGGGCTGGCTCCCGGCAAAACGCCCCCGTCCTCGCACAAAA
CCTCTGAGATGCCACCAGTCCCCGGCGGGCTGAGCCTGGAGGAGTTTTCCCGCTTTGTGGACCTGGAGGGTGAGG
AGCCAAGGTCTGGAGTATGTAAGGAGGAGATAGGCACTGAAGACGAGAAGGGGGACAGAGAGGGTGCCTTTGAGC
CCCTGCCCACCAAAGCTGATGCCCTCCGGGCCCTGGGCACCTTGAGGAGGTGGTTTGAATGCAACAGCACTTCTC
CTGAGCTATTCGAAAAATTCTACGACTGTGAGGAGGAGGTGGAGCGGCTTTGCTGCCTATGA

FIGURE 142A

GGAATTCTCTGGGGCTTTGGGGAATTTAGTGCGTGGGTGAGCCAAGAAAATACTAATTAATAATAGTAAGTTGTT
AGTGTTGGTTAAGTTGTTGCTTGGAAGTGAGAAGTTGCTTAGAAACTTTCCAAAGTGCTTAGAACTTTAAGTGCA
AACAGACAAACTAACAAACAAAAATTGTTTTGCTTTGCTACAAGGTGGGGAAGACTGAAGAAGTGTTAACTGAAA
ACAGGTGACACAGAGTCACCAGTTTTCCGAGAACCAAAGGGAGGGGTGTGTGATGCCATCTCACAGGCAGGGGAA
ATGTCTTTACCAGCTTCCTCCTGGTGGCCAAGACAGCCTGTTTCAGAGGGTTGTTTTGTTTGGGGTGTGGGTGTT
ATCAAGTGAATTAGTCACTTGAAAGATGGGCGTCAGACTTGCATACGCAGCAGATCAGCATCCTTCGCTGCCCCT
TAGCAACTTAGGTGGTTGATTTGAAACTGTGAAGGTGTGATTTTTTCAGGAGCTGGAAGTCTTAGAAAAGCCTTG
TAAATGCCTATATTGTGGGCTTTTAACGTATTTAAGGGACCACTTAAGACGAGATTAGATGGGCTCTTCTGGATT
TGTTCCTCATTTGTCACAGGTGTCTTGTGATTGAAAATCATGAGCGAAGTGAAATTGCATTGAATTTCAAGGGAA
TTTAGTATGTAAATCGTGCCTTAGAAACACATCTGTTGTCTTTTCTGTGTTTGGTCGATATTAATAATGGCAAAA
TTTTTGCCTATCTAGTATCTTCAAATTGTAGTCTTTGTAACAACCAAATAACCTTTTGTGGTCACTGTAAAATTA
ATATTTGGTAGACAGAATCCATGTACCTTTGCTAAGGTTAGAATGAATAATTTATTGTATTTTTAATTTGAATGT
TTGTGCTTTTTAAATGAGCCAAGACTAGAGGGGAAACTATCACCTAAAATCAGTTTGGAAAACAAGACCTAAAAA
GGGAAGGGGATGGGGATTGTGGGGAGAGAGTGGGCGAGGTGCCTTTACTACATGTGTGATCTGAAAACCCTGCTT
GGTTCTGAGCTGCGTCTATTGAATTGGTAAAGTAATACCAATGGCTTTTTATCATTTCCTTCTTCCCTTTAAGTT
TCACTTGAAATTTTAAAAATCATGGTTATTTTTATCGTTGGGATCTTTCTGTCTTCTGGGTTCCATTTTTTAAAT
GTTTAAAAATATGTTGACATGGTAGTTCAGTTCTTAACCAATGACTTGGGGATGATGCAAACAATTACTGTCGTT
GGGATTTAGAGTGTATTAGTCACGCATGTATGGGGAAGTAGTCTCGGGTATGCTGTTGTGAAATTGAAACTGTAA
AAGTAGATGGTTGAAAGTACTGGTATGTTGCTCTGTATGGTAAGAACTAATTCTGTTACGTCATGTACATAATTA
CTAATCACTTTTCTTCCCCTTTACAGCACAAATAAAGTTTGAGTTCTAAACTCATTAGAATTGTTGTATTGCTAT
GTTACATTTCTCGACCCCTATCACATTGCCTTCATAACGACTTTGGATGTATCTTCATATTGTAGATTTAGGTCT
AGATTTGCTAGCTCCAAGTAATTAAGGCCATGTAGGAGAGCATGGTAACCACAGATAGAACTGGTATTATCCCAA
GTGGTCTGCAGACTGCTGAGTGGGGATGGGATCTGCTCTCTGTTGAGAGTTGGTAATCATTGGTTTGAAATGTGA
TGAAACCACTCAAGCCAATGAAGGTGGGTGTGTAGGTGGGGAGTACTTTGCCATAATATTTTAAAACATTACCTG
GTTAGAGTTCTAAGTGGTACTTATTTTTGTTTGGTTAGGGGAAAGCCTGAATAAAAACAGAAATGGACACATAAT
ATGCATATTCCATAGTCTTTGGGAGGCTGGAATGTGCCTGGGATTTGGGTCTAAGTGTATGCGTAATTCTTACCT
CACTAAAGAATTTGCCTTGTTTTTTTCCTTTTGGTGAGTGACTAAAACGTCTGGGCTTCCCTGTGTGCGTGCTAC
AGTAAGCAAGCAGAGGCTGTGCAAAGGTGTGAGCAGGATCACGTGGAATCTGGAGGATACATCTTGGCTTGCAAA
CTGCCTCTGTCTCCTGGGTGGGACTGTTCTGTCCTTGCACTGCTGTTCTGTGTTACCTCTTGGGGTGTAAGGTTT
TGCTTACAGGAGACAAACTTTGGGCGTAGAATGGAAGCCACTGCCAGCCTCTGTGCTGAGAAGGAAGGTGCTTGT
TTCAAAGGGAGCAGCAAGGGAGGCTTGTTCTACTCACCTGGGCCTGTTTGCCTGAGAAGGGGAGATAAGGGCTGA
ACTGGGACTAGCCAGGGGGACCAACACAAATGGTGGGGGATCATGACCTGAAGGATTCTTTCCTTCCCATGAGCT
GCAGGGCTGGTTGCCGTCCTTGCAACTGTGTCTTATTTGCCTGTGCCGTTATATCTTGGTGACCCCTCCACGTGT
ACACTACTGACAAACGGGTGGAGTGCTGGGGAGAAGTCACTGTGCCGCCCACCTAGTAAACCTTCTGTCTGTGCT
CATGGCATCTCCAAGATGGGGCACTGCTGTGTGCAGAATCCAGGGTCCTCTTTCTGCTTGCAACTCCTTTCCCTG
GATGCCCCAGAAACAATCCAGGCCTCCTTTCCTATCTTACCCCTTTGCTTTGCTTTTTACCCCAGCACCTCTATA
ACCGCCTTCTCTTCTTTTCAGAACTCCTTGTTTCTCATCCTGTTTTTTATGATTACAAAACTCTTGCTTCCACCC
TGGAAGATAACTGCTATAGATGCCTGTATGTAAATGGTGCTGTCTCCAGCAACTGGCATGCTGAAGAAGAATTGA
TTCACGGGGTATAAATGTTGGGGATTGGAAGTGGGGATGAAATGGCACTTGTTGATACAGGAGCAGAGAGGTGAG
GCCGACTGCTGAAGACAGCTCGCCACCCTCCTTGCCTCCACTCCAATCCAGGGGCTGGGGCCACATTCTTTGCCT
TCATTTATCCTCAGATCAGGTGAGATCGACAGGAGGTGTTGATGGCAGTGCCAGCAATTATTGCTAATCCGTTTG
CATCCTTATGCATAGATCTGAATTCAGACTTTGTGAATTTCCAGAGGTGTGGGTAATATAATAGAATTCAGTGAG
TGGGCATGGCTGATCTTGTGCAAATTAAAAGTTATGGGGCATAAGAATAGCAAAAGTTGAACTTCTTTTAAAAAG
GAAAGTACCCTGAGAGCCAGTATTGGTTGAGGCTCTTCAGTATGCCCAGGTTGGCAGCACTGAGAACCGCAGGAA
CGGCCTGTTGTTACAAAAAGGAGATTGACTCAGCTGCCCTTGGTGCATCTGACTGACTATGACTGCTGAGAGATT
CCAAGGACCCTTAATGCCAGGGCTAACCTCTCCATGTGCAGTGAGACCTCTGGAGGAAGTGTCATCCTCTGGCTT
TGTGTGGTACTCATTATGGTGCAGTGCGGGCATGAAATGAAGACACCCAAATAGGCTTACAGATACGATATGTTT
TAAATGTTCGTATTTAACAAAAACATACTGACACTGTTTGGAAATGGCAACAGGAAGATAGCAAAATGAATACTA

FIGURE 142B

ACATTACGAAAAGATGAACAGGTACATGTTCCAAGGCAGGTGGCTGTGAACTTCCTCTGAGTGAAGGCATCCCCT
CCAGCACCTTTCAGCCTGCTAGTTAGGACGACCCGCCGCCACCCTCCAGGACCTCCAGCCCTGCACTGCCTTTCC
TCTCTTTTAAATAATTCTTCATTGAGTTCTAATATGTAAAAAAAAAAAAGTTTACTGTAAAGTTTGCAAATAAGGA
AATTTTTTTTAAAAGTCCTCAGTAATCTTACCAGTAACAATTGTTATGGGCACATTTGCTTTTGGAAGATTTCTT
TTGTATGCATGGGATAAGTACATTTTTAAACAAAAATGGGATTATGCCATAAATTCTATTTTGTGACTTTAATAT
ATAGTGAACACCTTTTTTAATGATGACAGGATGTTCCCTTGCATGGCTGTATCAATTTAAACAATCTTGTTTCAA
TGGGCATACAGGGTATTTTCTAGTTTTTTTTTCCTCTTAGAAAATAATACTTGCGATGACTTTCCTTGTAGCTCA
GACTTTTTCACGTCTGTTGTTATCTCTTTGGGAATGCTGAATACATACATTTCGAGAAGGAAATGACTGTTAAAC
TCTTAAGACTTCAGGTTCATATTGCTAAACTGCCCAGCAGGGAGGGATTTTTTCAATTAGTGTTCTCACTGGTGA
GGCAAACCTGATGCCTTCCCCTCTTCCTCAGAACCGGCTTTATCACATTGAAAACCTTTGCTCCTCCGACGGATC
GAGTCTGCTTTCCCTGTGGATGTGAGCATTGCTTTGTCTGCTGGTGACTGAACATCTCTACCATGTGTCAATTGG
CCATTTGTGGTGTGTGTGTGTGTGCGTGTGTGTGTGTGTGTGTGTGTGTATGATTTTCTAATTCCTAGTCATTTT
TCTATTGATTGTTTTGCAAAAGCCATTTACATCTTAAGGATATTGATAATCTTTTGTTATATTTGATGCAAATAT
TTTTTTCCAGTTTATAGGTTGCCTTTTAATTTTGTGTTTCAGGTAGATAAAAGTTAAACGATTTTCTTAGGTTAG
TTTATCACTGTGGTTTCTGAACTTGTTATGTGTAGATCTTTTCCACCCCAAGAGTACATAAATATTAATCCATAC
TTTCTTATGGAACTTGTATGGTTTCGTTTTTTACATTTAAACCTTCTTCCCCGTGGTGTGTGTTGTGGAATCTGT
GTTTGTGTGAGGAGGGGCATGGTGCTCTCAGAACCCACCTCCTGTGGCCAGAGAGCCCTGTCCTGTGAGGGTGGT
TATCACAGTGGCAGGGTTCAATTCAGAAGACCTTGAGGGCAGGCTGATGTTTCCTGAATGGGCCCCTGGTTGTTG
CTTGTCCCTGACTCTCCATTTCCCCATCTGAGTGGATTTGGACCTAATAGGGCACTGGAGCTGGTTCGAATCCTG
ACTGGACTACTTGGCAACTTTATGTCTGGGAGCAAGTTACTTAACCTCCCCAAGCCTGTGTCTGTGAAATGCGGG
TAAATGAATGTAG**ATG**TTTGGCAGCAGCTACTCCTTGTTGAGCTCTCACAGTGAACTCTCCTGCCTCTGCCCTCC
TTCCCCGCCTCCCCTGGTGCCTAGCGTCAGGTCTAGCCACTTCCTCCTGGGCCCCTCTCCCTTTTCTGTGGCTGG
CTGCCTGCCCGCCTGGCGCTGGACCTTTCATGTAACGGGAATCAGCATGTATATTCTGGTCTGGTCTGTTTCTAC
ACTTAATTTTGTTTCCAGTAGTATTTCCCTGTACCGGCAGAGTTCACAAACACATTTGAAGAGGCTTTTTCTCAG
GATTCTTAACCTTCCCAAAGGAAGTCCCATGGATGGGTTTCTAGAAGTCTATAAATGCTCTGAAATTGTATTTTT
CTGTGGAAAGCATAACTTTCATCTGCTTGTTCGTGCTCAAAAAAGATCA**TGA**ATGAATGATTGCATGATTTTATG
CCATTGTGCTTATACTAAAGGATATGTAGCCCATCTCTTGAGCTGTTAAACTGTTTTGACTACTTTAAATCGTGC
AGCTGTGAGCATCTCTGTAAATTTAGTGTACACATGTATCCCCTGGAGTGGCATTGCCTCGGCAGTGAGCACTTA
TGGTTTTATAACTCTCTTCACAGACTCAAATGACTCCAGAAAGCTACACTTCCTGTTGTGAGTATATGATATCCA
TTTCCCTACATAGCCACTAACATCAGGTTTTTACAATTTTATTTATTTCTTGCTACTTTAAGAAATTTTTGTGGT
GAAATACATATAATAGAAGTTGACTATCTGAATCATTTTTAAGTATACATTCAGTAGTGTTAAGTATGTCGCCAT
TGTTGTACAACCAATCTCCAGAACTTTTTCATCTTGCAAAACAAACTCTGTACCCATTAAATAACATTAAACATT
CCATTCCCTCCAGCCTCAGCAACCCCATTCTACTTTCTGTTTCTGTGAGTTTGACTATTCCAAGCACTTCATATC
AGTTAAATCATGAAGTATTTGTCTGTCTGTGACTGGCTTATTTCTCTGAGCACAGTGTCCTCGAGATGCGTCTAT
GTTGTAGCATATGTCAGAATTTCCTTCCTTTTTAAAAGATCCAAATAATATTCTTATTTTATATCTTTTTTTTAT
CCATTCATCCATTAGTGGACACTTGGGTTGCTTTTGGCTATTGTAAATAATGGTGCTATGTACAAATATCTATAT
TATTGTATTTACAAGTATAATGCTGTAATGTACACACATCTTTTTGAGATCCTACCTTCAGTTCTTTTGAGTATA
TAGCCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTTAATTTATTGAGGAACCACTGTAGTTTTTCAT
AGCAACTGCACCATTTTACGTTCTCACCAAGAGTGCACAAGGGTTCCGAGGTTCCCACATCCTCCCCAACACTTG
TTATTTTCTGCTTTTTTTAGATTGCAGCCATCATAGTGGGTGTGAGGTGACATTTCATTGTGGTTTTGATTTGCA
TTTCCCTAATGAGGAGTGATGCTGAGCATCTTTTCATATGCTTACTGGTCATTTGTATGTTGTCTTTGGAAAAAT
GTCTATTCAAGTCCTTTGACTATTTTAAAAATTGGGTTATTAGAGTTATCGTTGTTGTTGACTTGTAGGAGTTTC
TTTCTATATTCTGGATATTAATCCCCTATCAGATATATGATTTGCAAATATCTTCTCTTATTCCATAAGGTTACT
TTTTCACTTTGTTGATTGTGTTCTTTGATGTATAGAAGTTTTTAGTTTTGAAATAGTCTAATTTATCTGTTTTTA
CTTTTGTGGTCTGTGCTTTTGGTGTCATATCCAAGAAATCCTTGCCAAATCCAACGTTATAAGGTACTTTTAAGG
TATTTTAGTTGTCTTAGTCTATATTTCTGTACTCACCTTTCTTTATCCACTCATCAGTTGATGGGCATGTAGGTT
GGTTCCATATCTTTGCAATTCTGAATTGTGCTGTGATCAGGTGTCTTTTTAGTATAATGATTTACTCTCCTTTGG
GTAGATACCCAGTAGTGGGATTGCTGGATCGAATGGTTTTTATAATTTTCTATTTTACCACAGTTTCTCTCTGCA

FIGURE 142C

TTTTTCCTCTTTGACCACTAACCATGTGAAATTCTCATATTGACCTTTATAATGATCATGAACTCTTAGTATCAT
TGGGAAGGCCACATTTGCCACTTATGATTGTAAACCTTATCCTCCATTTTTCCTGTTATTGTTGGTGCAAAAAGC
ACCTATTATACCAGGACTTTAAAAATCAGTCTGATAAGTCTTTGATAAGTCTAATAATAATAACTGATAAGTCCA
TTGAATTTGCTTCTGATTACTTTTTCTTTAGTAGCTAAACATGTATGTACTCCTATGATTACAATGAACACTCCT
CTCCATTTAAATTAATTATTTACATTGATGAAATAGCAAAATGTTAATGACTAAATACTGTCTTGGTTTTTTCGT
TCCAGGTCAGTCAATATTAACTTCTTATAATTTTCTTTTTTTTCTTTATGTGTGTGTGTGTGTGTATTTTTTTTT
TTTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATAGATGAATTCTACAGTAGTGAAGTCTGAG
ATTTTACTGCACCGGTCACCTGAGTAGTGTACATTGTACCCAATATGTGGTTTTTTATACCTTGCCCCCCTCTTA
CCCTCCCCACTTTGAGTCTCTAGTGTCCATTATGTCACTCTGTATACCTTTTTGTACCCATAAGTTAGCTCTCAC
TTATAAGTGAGAACACACAGTATTTGGTTTTCCATTCCTGAGTTGCTTCACTTAGAATAATATCCTCCAGCTCCA
TCCAAAATTGCTGCAAAAAAAAAAAAAACCACAAACATTATTTTGTTCTTTTTTATTGCTAAGTCATATTCCATG
GTGTAGAGATACCACATTTTATTTATCCACTCACTGGTTGATGGGTTGGTTCCACATCTTTGCAATTGTGACTTG
TACTGCCATCAAGTGTCTTTCTGGTATAATGACTTCTTTTCCTTTGGGTAGATACCCAGGAGTGGGATTGCTAGA
TCAAATGGTTCTTAACATTTTCTCTCTGGATCTATTTCTGGAAATTTTAGGCTCCAGTTTTTGTTGTTGTTGTTA
ATAAAATGCAATGGAATGTAATGATCATCACTTTTCATTATGCTTTAAAATCTGGTAAATGGAGGCTAGAACACT
CCTGTAAGGCAAGAATATTCTCTCTGTTGGAACTCAAATACACAGAACTGGGTAAATCTCAATCTTAATCTTTGA
TTCAGGACACAACATGGCTCTCTTTTACTTGCTTTCTTTAATTGTTTTTTAATAATGTGGTAAGCATTTCTGAAT
CTCCTATCCAATACAAAAACTAGGACAATACAGACAGTAACTCCTATGGTTACAATGAACACTCCTCTCCACTTA
AATTAATTATTTACACTGATGAAATTGAAATAGCAAAATTTTAATGACTAAATACTGTCTTTGATTTTTTGTTCC
AGGTCTGTCAATATTAACTTCTTATAATTTTCTTTTTTTTTCTTTATGTGTGTGTGTGTGTGTATATATATATAT
ATTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATATATGAGTTCTACAGTAGTGAAGTCTGAG
ATTTTACTACACCTTCCACTTATGTGGTCCCACACCACCCGCCTCCCCTGCCGCCTCCTGCCACCCCCTAGGCCA
AGGTAATAATCATCCTGAATCCTGGGTTTATCTCTCACTTGCTTTCTTTTCATATAATTTTGCAAAAGAATCTGA
TCTAAATGTGTTTTTCAGAGTATATATTTATATTTTAGCTGTTCTTAGAGAAAATTTATTATTTTGCATGTAATC
TTATGGAACATTCTCATTTAATACCATGGTAAGATTCAGCCCTTGCCCAGGGGATAGTTCATTTAGTTTGTTTAC
TGGATAGAGCTCATCATGTGACTATACCTCAGTTAGTTTATCAGTTCTCCCATCCATGGTGACTAGGTTGCCTCT
CAGCCTCTCAACAACACTGTTTCTCAGTGTCCTTGTAGAAGTGATATGTGGGTGTTTTCTCCTTACACAGAGTTG
AAAGGTGACGACAACAACGTTGGCACTACCAATCCCCCACCCTCCAGAGGGGTAACCAGTGTTACCAGTTTGCTG
TGTTTCCTGCTACACCTCGCCTTATTCACTTCCATTTGTATCTGAAAAACGTGTTGCATGGTTTCTTTTCTATAG
AAGTGGTAAAATGCTATTGTGTCCTGTACATTATTGATTACTTTTTTTCATTTAACAGTAGGGAGATGCCTGGGA
GTACACAGAGAACTGCCCTCATTGTTTTCAACTTCTGCACTGTATGTCTGTGAGTTTAGCCATTCTGCTGTTAAT
GGAAATTTACAGTATTCTAATCTTTTGATATTACAAACAGTTCTGTGCGATCATCGTCATACACAACCCCTTGTG
CACAATGCATGAGTGTTTCTCAGGGTAGGTACCAAGAAGTGAAATTCCTGGGTCATAGGGCGTGAGTCCGACATT
TTTCTCCATTCTGCCCTGTTGCCCTCCAGAGTGGGTGTCCAGCTTTGCATACCTAAGTATGAGAGTATCTGTTGT
TCATATCCTCTACGACGCTCCATATATGAAACTTAAGTTTCTGCTAGTTGCCATCTTTGATCTATCATGTATGCA
GTGACCTACTAAGACTGTAATTGGTACAGTAGATTCTTGTCATCTGTGTGTGAATTTAGCATTCATGGGCTTAAT
GCTGACAAGGCCCCCAGGGTCCAAGACATATAATCATGTATAATTTTGTCAAGGTATAATTTTTTAAATTGCTTT
TGTCATGTGTCTGCTGGTGATGCCCAACCCAGTGCTCTGCACCCAGGTCACACTGTGGCTTTGTCCTCTGCTTAT
GCCTGCATTGCAGCAACTGTCCTGAAGAGACCAAAATTATGCAGATTTAGGTAAGTCCATGGCTAATGTTATTAT
ATTATGTGCTATTGTAATGGATGGGGCTGTGGAGTGTATGAATTTATAAATCACTGGTCTTGTAATTAAAATTCA
AACACTATAGAAAAAGGCCATGTAGAAGATAAAAGTTCCTCTATAATCCCGGACCCCTAAGATAACTACTAATGA
CAACTTCATTTATATTCCTTCAGACATTTTCTGGCTGTGGATGTACTAAAATGTATCCTATTATTCTCTGCCCTA
AAATGGAATCATACAAGGTGTACTGTTATTTTTATGGCTCTATAACATGTCATATTGTACGTGTTGGTATGGTCA
TTTTAACCATTTTTCTAGTGATGGCTTTGAGGTTATTTGCAGTTTCCTAGCCATCTCAAAGTGTGCTGCGGGGAT
CTCTTTTGCATCCCTCTGGGTGCAGAGCTGAGGCACCCAGAGGCAGTGTCCAGAGGAGGCAGCATCTGTAGGTGT
CTTCACCTGCTCTGGCTCTTGGCACATCTGGTTGGTGACACTGTTTTGTGAGATGGGTTGAAAGCACGTGCTGCC
AAAATAGAATAATGTTGGTCCTCTCCTCATGTGCCGTGGAACTGGGGTAAAACTGCGTAGTGGCTGCAGCTGCCT
GTCCATACCGGAATCGAGTATAACACGGTGCCTGGCTTAGCACAAAACAGTAGTGGGTCCTGCAGGCCCCAGAGT

FIGURE 142D

CTAATTCCTGGTATTCTTTCCCCTACACAGATTAAATAAACCAAAAACAAACTATTCTAGGAAAGCGTCTGTGAC
ATTTGTAAAAAGTGGTATTTAATGATCTTTTATTCACTTGTCTGTTTAGTTTGTTGAAATCTTAAGTGGCATCCT
GGTCTGGGAAGGAGTGCTGTCTGCGCCTGCCCTCCGCTGGGCACAGCGTGGCTGCTTCAGGGGCTAAGCACACAC
TTTCTGTCTTCTAAAGGGCCGCCACATGCCAGGAGCTCAGGTGTGAGCCCGGCTCTGGCTCTTACCTCATAGGGT
CACTCATAGGGGCACAGGGAGCAGAACATTGTACACAGCGAGGCACCACCCGGCTTGGCATCTGCCTCGGTGGAC
TTACTACCTCTAGAAGGAAATACCTGAGTTCCTCTGGCCTCAGCTCCTAGAGTGACTGGTGTGCTGTCCCTGTTA
CTCTTCTGTCAAGGTGACAACTGTGTGACCCATCATCTGTGTGTCAAAGCAAGGCCCTGCCTGGGCCTCTGCTCC
TGTGCTGACCCCAAAGGCAAATGCTTTGCTAGTTTCCTTCCAGTTAATTTCACCTATGAATAGATGTGTGAAAAC
TGTTCAAAGCCATACCTGCACATGTTTGAACTTCAAACCCTGTGGGTGATTCAGTGGCATCTTTCTCTAACCCCC
AGCCTCCCTTCCCACAGAGGCCACCGTCATGGCCAGTTGCTGCAGTTTCTTTCCAGAGAACCTGTGTATGTGTAA
AGCTGTACAGGCGTGGGTACACCACACAGCCTGTCTTGCACTGTGGACTGTTGAGTTACTAGTACATCTAGGTAA
GCACCGCATATCTGTATTCATGTCTGCCTTGGTCTTTTCAACATCTGTGTGGTAGCCGTGTTTGAATTACCCATT
CCCTTTTTGGGGAACCATTAAGTTGTTTCAGCAATTTTTACTGTAGATAAGGCTATACCGCATATCTGTGTACAT
GGGTTTTTATGTACATGGGCAAGTATATCTGTGAGAGAAAAGTTTCCTCAGGAGGAATTCTGGGCACAGCATGTG
TAAATTTCTAAATATGATGGACACCCCCAGCTTCCACCTCAAGGAGGTTGGTCCCATTGACATTTCCCCACACCT
TCACCCAGGCTGTGCCCTTAAACTTGGTTATTTGTCAATGTGAGAAGTGGAAAATAGTATTTAATTGTAGTTTGG
ATTTGTATTTCTATTGGGTTGTATACTTACTGATTAATAATAAGAGCTCTTTACATATTAAGGAAATTAACCCTT
TTCAAATACATTCCTATTTCTCACTAATCTTTAAGTTTTATTGTAATATTTTGCTCTTTAGTTTATATATATATG
TATATATATATATATATGTATATATATATATATATACATATATATATACATATATATATA

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FIGURE 143

ATGGTCCGCTGCGTCCGACTGGTGGAAGCAGGATCTGTGGTGAGATACCTCAGCACAAGCATATGCAGGCCTGTG
GTAGACGCCGGAAGTAGGGCCCTTTGTCTCCAAGAATGGGCAGACTCTCAACAGGTGAAAGAAAAACAGTACTCC
AGCAGAGATGTCCAGAGAGCAGCCGCTCTCAACATCTACCGTATCCCACCGTCTAGCAGGAAGCCCGCTCTCTGT
CCAACTCCGCGGGACCGACTAGAGTACGACGAGGACCGACTAGAGCACATCGCCTACGTGCGCGCCCGGGAGCTG
CACACTCTTGAAGTGACCGGCCTGGAGACGGTTGCCCAGAGCAAGCCACTACTTGCCTTTCCTCCTGTGGCTTCC
CCAGACAACACTCTTGACTCTCCCTTTCCTTTGAAGGCCCATGTAGCATCCCTGGAGGGCCTCATCCCTGAAGAT
AAGGTTGTGCTTCTGGCAGGTTCTCCCTTACAGAATGAAGCCACCCTGGGTCAGTGTGGGGTGGAAGCCCTGACA
ACCCTGGAAGTGGTTGGCCGCAGGCTAGGAGTGGTAAGAGTGCCAGGAACGGAGCGCGTTTGCTGCACACCATTT
GCCATTGGTGCATCGAGCACACTCCCAGCTCCAGGATTATGGGAAGACCTTTTTGGGGCTGGAACAGCGCGCAGT
GGCCACCGCCGCCGGGTCTCCAGCCCCCAGGAGCGCGGCCTCCTCCCGGACTCTCTCCGATGCGGTCCTGCCCTG
GGGACACGGCAGGAAGAAGGGACCTGGCTGGGGGACGTGGCCCCGGCGCGGGGGCAGGGGAGGCAGCGCGGGACT
CCCAGCGGCCCCTGCGCGGGCCTTCCTGAACAGCAGCAGCAGCTGGGAATGCAAAATGACATCCCTATGTTGTCC
CTGCCCTTTGTCCAGGGTGAGAGGGACCCTTCCTCGGTGGAGTTGACACAGACCTGCCTCTCTCTCATGTCTGTA
CTGGGACCCACAGTGCTACAGCTGGGCTGCCACAGCCAGGCCTTTCGGGAGGATCCACCAATAGGCTTCAGGGCC
CAGGGCCAAGGAGGGCGGCTCACGGCCCTCGCGTATCCCTGCGCGGCGCTCGCGAGCCGCCCCTCCCCCGGCGTT
TGTCCCTGA

FIGURE 144

AGCCCCCCCATCCCCGCCCCTCTCCCGCCCCTCCCTTGTCCCCGCCCCTTCCCGCCCCAACTCAGGTTCTGCCCC
ACCCCGCCCCAATTCACGTCCTGCTCCGCCCCGACGTAGGCCCCGCCCTGGCCCCCGGGCCCCGCCCCCGTCTGA
CGCAGGCCCCGCCCCCTCTCCGCCCCGCCCCGGCTCGGGCGGCCGGAGGACCCGGAGCTAAGGCGCCCGAACCCG
CGGCGGCGGTGGGGACGATGTGGTTCTTTGCCCGGGACCCGGTCCGGGACTTTCCGTTCGAGCTCATCCCGGAGC
CCCCAGAGGGCGGCCTGCCCGGGCCCTGGGCCCTGCACCGCGGCCGCAAGAAGGCCACAGGCAGCCCCGTGTCCA
TCTTCGTCTATGATGTGAAGCCTGGCGCGGAAGAGCAGACCCAGGTGGCCAAAGCTGCCTTCAAGCGCTTCAAAA
CTCTACGGCACCCCAACATCCTGGCTTACATCGATGGACTGGAGACAGAAAAATGCCTCCACGTCGTGACAGAGG
CTGTGACCCCGTTGGGAATATACCTCAAGGCGAGAGTGGAGGCTGGTGGCCTGAAGGAGCTGGAGATCTCCTGGG
GGCTACACCAGATCGTGAAAGCCCTCAGCTTCCTGGTCAACGACTGCAGCCTCATCCACAACAATGTCTGCATGG
CCGCCGTGTTCGTGGACCGAGCTGGCGAGTGGAAGCTTGGGGGCCTGGACTACATGTATTCGGCCCAGGGCAACG
GTGGGGGACCTCCCCGCAAGGGGATCCCCGAGCTTGAGCAGTATGACCCCCCGGAGTTGGCTGACAGCAGTGGCA
GAGTGGTCAGAGAGAAGTGGTCAGCAGACATGTGGCGCTTGGGCTGCCTCATTTGGGAAGTCTTCAATGGGCCCC
TACCTCGGGCAGCAGCCCTACGCAACCCTGGGAAGATCCCCAAAACGCTGGTGCCCCATTACTGTGAGCTGGTGG
GAGCAAACCCCAAGGTGCGTCCCAACCCAGCCCGCTTCCTGCAGAACTGCCGGGCACCTGGTGGCTTCATGAGCA
ACCGCTTTGTAGAAACCAACCTCTTCCTGGAGGAGATTCAGATCAAAGAGCCAGCCGAGAAGCAAAAATTCTTCC
AGGAGCTGAGCAAGAGCCTGGACGCATTCCCTGAGGATTTCTGTCGGCACAAGGTGCTGCCCCAGCTGCTGACCG
CCTTCGAGTTCGGCAATGCTGGGGCCGTTGTCCTCACGCCCCTCTTCAAGGTGGGCAAGTTCCTGAGCGCTGAGG
AGTATCAGCAGAAGATCATCCCTGTGGTGGTCAAGATGTTCTCATCCACTGACCGGGCCATGCGCATCCGCCTCC
TGCAGCAGATGGAGCAGTTCATCCAGTACCTTGACGAGCCAACAGTCAACACCCAGATCTTCCCCCACGTCGTAC
ATGGCTTCCTGGACACCAACCCTGCCATCCGGGAGCAGACGGTCAAGTCCATGCTGCTCCTGGCCCCAAAGCTGA
ACGAGGCCAACCTCAATGTGGAGCTGATGAAGCACTTTGCACGGCTACAGGCCAAGGATGAACAGGGCCCCATCC
GCTGCAACACCACAGTCTGCCTGGGCAAAATCGGCTCCTACCTCAGTGCTAGCACCAGACACAGGGTCCTTACCT
CTGCCTTCAGCCGAGCCACTAGGGACCCGTTTGCACCGTCCCGGGTTGCGGGTGTCCTGGGCTTTGCTGCCACCC
ACAACCTCTACTCAATGAACGACTGTGCCCAGAAGATCCTGCCTGTGCTCTGCGGTCTCACTGTAGATCCTGAGA
AATCCGTGCGAGACCAGGCCTTCAAGGCCATTCGGAGCTTCCTGTCCAAATTGGAGTCTGTGTCGGAGGACCCGA
CCCAGCTGGAGGAAGTGGAGAAGGATGTCCATGCAGCCTCCAGCCCTGGCATGGGAGGAGCCGCAGCTAGCTGGG
CAGGCTGGGCCGTGACCGGGGTCTCCTCACTCACCTCCAAGCTGATCCGTTCGCACCCAACCACTGCCCCAACAG
AAACCAACATTCCCCAAAGACCCACGCCTGAAGGCCACTGGGAGACGCAGGAGGAGGACAAGGACACAGCAGAGG
ACAGCAGCACTGCTGACAGATGGGACGACGAAGACTGGGGCAGCCTGGAGCAGGAGGCCGAGTCTGTGCTGGCCC
AGCAGGACGACTGGAGCACCGGGGGCCAAGTGAGCCGTGCTAGTCAGGTCAGCAACTCCGACCACAAATCCTCCA
AATCCCCAGAGTCCGACTGGAGCAGCTGGGAAGCTGAGGGCTCCTGGGAACAGGGCTGGCAGGAGCCAAGCTCCC
AGGAGCCACCTCCTGACGGTACACGGCTGGCCAGCGAGTATAACTGGGGTGGCCCAGAGTCCAGCGACAAGGGCG
ACCCCTTCGCTACCCTGTCTGCACGTCCCAGCACCCAGCCGAGGCCAGACTCTTGGGGTGAGGACAACTGGGAGG
GCCTCGAGACTGACAGTCGACAGGTCAAGGCTGAGCTGGCCCGGAAGAAGCGCGAGGAGCGGCGGCGGGAGATGG
AGGCCAAACGCGCCGAGAGGAAGGTGGCCAAGGGCCCCATGAAGCTGGGAGCCCGGAAGCTGGACTGAACCGTGG
CGGTGGCCCTTCCCGGCTGCGGAGAGCCCGCCCCACAGATGTATTTATTGTACAAACCATGTGAGCCCGGCCGGC
CCAGCCAGGCCATCTCACGTGTACATAATCAGAGCCACAATAAATTCTATTTCAC

FIGURE 145

CAGAGACTGATGAGTGCCGACTGAACCAGAACATCTGTGGCCACGGAGAGTGCGTGCCGGGCCCCCCTGACTACT
CCTGCCACTGCAACCCCGGCTACCGGTCACATCCCCAGCACCGCTACTGCGTGGATGTGAACGAGTGCGAGGCAG
AGCCCTGTGGCCCGGGGAGGGGCATCTGCATGAACACCGGCGGCTCCTACAATTGCCACTGCAACCGCGGCTACC
GCCTGCACGTGGGCGCCGGGGGGCGCTCGTGCGTGGACCTGAACGAATGCGCCAAGCCCCACCTGTGCGGCGACG
GCGGCTTCTGCATCAACTTTCCCGGTCACTACAAGTGCAACTGCTACCCCGGCTACCGGCTCAAAGCCTCCCGGC
CTCCTGTGTGCGAAGACATCGACGAGTGCCGGGACCCAAGCTCTTGCCCGGATGGCAAATGCGAGAACAAGCCCG
GGAGCTTCAAGTGCATCGCCTGTCAGCCTGGCTACCGCAGCCAGGGGGGCGGGGCCTGTCGCGACGTGAACGAGT
GCGCCGAGGGCAGCCCCTGCTCGCCTGGCTGGTGCGAGAACCTCCCGGGCTCCTTCCGCTGCACCTGTGCCCAGG
GCTACGCGCCCGCGCCCGACGGCCGCAGTTGCTTGGATGTGGACGAGTGTGAGGCTGGGGACGTGTGTGACAATG
GCATCTGCAGCAACACGCCAGGATCTTTCCAGTGTCAGTGCCTCTCTGGCTACCATCTGTCCAGGGACCGGAGCC
ACTGCGAGGACATTGATGAGTGTGACTTCCCTGCAGCCTGCATTGGGGGTGACTGCATCAATACCAATGGCTCCT
ACAGATGTCTTTGCCCCCAGGGGCATCGGCTGGTGGGTGGCAGGAAATGCCAAGACATAGATGAGTGCAGCCAGG
ACCCGAGCCTGTGCCTTCCCCATGGGGCCTGCAAGAACCTTCAGGGCTCCTATGTGTGTGTCTGCGATGAGGGCT
TCACTCCCACCCAGGACCAGCACGGTTGTGAGGAGGTGGAGCAGCCCCACCACAAGAAGGAGTGCTACCTGAACT
TCGATGACACAGTGTTCTGCGACAGCGTATTGGCCACCAACGTGACCCAGCAGGAGTGCTGCTGCTCTCTGGGGG
CCGGCTGGGGCGACCACTGCGAAATCTACCCCTGCCCAGTCTACAGCTCAGCCGAGTTCCACAGCCTCTGCCCAG
ACGGAAAGGGCTACACCCAGGACAACAACATCGTCAACTACGGCATCCCAGCCCACCGTGACATCGACGAGTGCA
TGTTGTTCGGGTCGGAGATTTGCAAGGAGGGCAAGTGCGTGAACACGCAGCCTGGCTACGAGTGCTACTGCAAGC
AGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTGGACGTGGACGAGTGCCTGGACGAGTCCAACTGCCGGA
ACGGAGTGTGTGAGAACACGCGCGGCGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGC
GCCAGTGCCTGAGCCCGGAAGAGATGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCCGCTGCG
TCAACCTGCCGGGCTCCTACCGCTGCGAGTGTCGCCCGCCCTGGGTGCCCGGGCCCTCCGGCCGCGATTGCCAGC
TCCCCGAGAGCCCGGCCGAGCGTGCCCCGGAGCGGCGCGACGTGTGCTGGAGCCAGCGCGGAGAGGACGGCATGT
GCGCTGGCCCCCTGGCCGGGCCTGCCCTCACCTTCGACGACTGCTGCTGCCGCCAGGGCCGCGGCTGGGGCGCCC
AATGCCGACCGTGCCCGCCGCGCGGCGCGGGGTCCCATTGCCCGACATCGCAGAGCGAGAGCAATTCCTTCTGGG
ACACAAGCCCCCTGCTGTTGGGGAAGCCCCCAAGAGATGAGGACAGTTCAGAGGAGGATTCAGACGAGTGTCGCT
GCGTGAGTGGCCGCTGCGTGCCGCGGCCGGGCGGCGCCGTGTGCGAGTGTCCCGGCGGCTTCCAGCTCGACGCCT
CCCGCGCCCGCTGCGTGGATATCGACGAGTGCCGAGAGCTGAACCAGCGCGGGCTGCTGTGCAAGAGCGAGCGCT
GCGTGAACACCAGCGGCTCCTTCCGCTGCGTCTGCAAAGCCGGCTTCGCGCGCAGCCGCCCGCACGGGGCCTGCG
TTCCCCAGCGCCGCCGCTGACGCCGCCGACGCCGCCCTCGGCCCAGACCTCGGTGATCACTGAGGGATTTCCGCG
AGCTCGGCCTCACTTCTGCCCCGACTTGTGGCTCGGACCCAGGGACCTTCAGGGCCCGCAGACCCTCCCGGCGCC
TTGAGACCCGAGGCGCCCCTACCGGCCCCCCTCCCCGGTTAGCGGGCGGTTGTAAGGTCTCCGGCGGGCGCTGCC
TGCCTTCCTCCCAGAGGGTGTTTCCTAGAAACTGATAAATCAGATCGTGCCTCTTTACCCTTGGCTTTCG

FIGURE 146

CTCCCAAAGCAGAATTGCAGCTGCCGCCGCCGCCACCTCCAGGCCACTATGGCGCCTGGGCTGCCCAGGAGCTTC
AGGCCAAGTTGGCAGAGATCGGAGCTCCGATCCAGGGTAATCGCGAGGAGCTGGTGGAGCGGCTGCAGAGCTACA
CCCGCCAGACTGGCATCGTGCTGAATCGGCCGGTTTTGAGAGGGGAAGATGGGGACAAAGCCGCTCCACCTCCCA
TGTCGGCACAGCTCCCTGGAATTCCCATGCCACCACCACCTTTGGGACTCCCCCCTCTGCAGCCTCCTCCGCCAC
CCCCACCACCTCCACCAGGCCTTGGCCTTGGCTTTCCTATGGCCCACCCACCAAATTTGGGGCCCCCGCCTCCTC
TCCGTGTGGGTGAGCCAGTGGCACTGTCAGAGGAGGAGCGGCTGAAGTTGGCTCAGCAGCAGGCGGCATTGCTGA
TGCAGCAGGAGGAGCGTGCCAAGCAGCAGGGAGATCATTCGCTGAAGGAACATGAGCTCTTGGAGCAGCAGAAGC
GGGCAGCTGTGTTACTGGAGCAGGAACGACAGCAGGAGATTGCCAAGATGGGCACCCCAGTCCCTCGGCCCCCAC
AAGACATGGGCCAGATTGGTGTGCGCACTCCTCTGGGTCCTCGAGTAGCTGCTCCAGTGGGCCCAGTGGGCCCCA
CTCCTACAGTTTTGCCCATGGGAGCCCCTGTTCCCCGGCCTCGTGGTCCCCCACCGCCCCCTGGAGATGAGAACA
GAGAGATGGATGACCCCTCTGTGGGCCCCAAGATCCCCCAGGCTTTGGAGAAGATCCTGCAGCTGAAGGAGAGCC
GCCAGGAAGAGATGAATTCTCAGCAGGAGGAAGAGGAAATGGAAACAGATGCTCGCTCGTCCCTGGGCCAGTCAG
CGTCAGAGACTGAGGAGGACACAGTGTCCGTATCTAAAAAGGAGAAAAACCGGAAGCGTAGGAACCGAAAGAAGA
AGAAAAAGCCCCAGCGGGTGCGAGGGGTGTCCTCTGAGAGCTCTGGGGACCGGGAGAAAGACTCAACCCGGTCCC
GTGGCTCTGATTCCCCAGCAGCTGATGTTGAGATTGAGTATGTGACTGAAGAACCTGAAATTTACGAGCCCAACT
TTATCTTCTTTAAGAGGATCTTTGAGGCTTTTAAGCTCACTGATGATGTGAAGAAGGAGAAAGAGAAGGAGCCAG
AGAAACTTGACAAACTGGAGAACTCTGCAGCCCCCAAGAAGAAGGGATTTGAAGAGGAGCACAAGGACAGTGATG
ATGACAGCAGTGATGACGAGCAGGAAAAGAAGCCAGAAGCCCCCAAGCTGTCCAAGAAGAAGTTGCGCCGAATGA
ACCGCTTCACTGTGGCTGAACTCAAGCAGCTGGTGGCTCGGCCCGATGTCGTGGAGATGCACGATGTGACAGCGC
AGGACCCTAAGCTCTTGGTTCACCTCAAGGCCACTCGGAACTCTGTGCCTGTGCCACGCCACTGGTGTTTTAAGC
GCAAATACCTGCAGGGCAAACGGGGCATTGAGAAGCCCCCCTTCGAGCTGCCAGACTTCATCAAACGCACAGGCA
TCCAGGAGATGCGACAGGCCCTGCAGGAGAAGGAAGAACAGAAGACCATGAAGTCAAAAATGCGAGAGAAAGTTC
GGCCTAAGATGGGCAAAATTGACATCGACTACCAGAAACTGCATGATGCCTTCTTCAAGTGGCAGACCAAGCCAA
AGCTGACCATCCATGGGGACCTGTACTATGAGGGGAAGGAGTTCGAGACACGACTGAAGGAGAAGAAGCCAGGAG
ATCTGTCTGATGAGCTAAGGATTTCCTTGGGGATGCCAGTAGGACCAAATGCCCACAAGGTCCCTCCCCCATGGC
TGATTGCCATGCAGCGATATGGACCACCCCCATCGTATCCCAACCTGAAAATCCCTGGGCTGAACTCGCCCATCC
CTGAGAGCTGTTCCTTTGGGTACCATGCTGGTGGCTGGGGCAAACCTCCAGTGGATGAGACTGGGAAACCGCTCT
ATGGGGACGTGTTTGGAACCAATGCTGCTGAATTTCAGACCAAGACTGAGGAAGAAGAGATTGATCGGACCCCTT
GGGGGGAACTGGAACCATCTGATGAAGAATCCTCAGAAGAAGAGGAAGAGGAAGAAAGTGATGAAGACAAACCAG
ATGAGACAGGCTTTATTACCCCTGCAGACAGTGGCCTTATCACTCCTGGAGGCTTTTCATCAGTGCCTGCTGGAA
TGGAGACCCCTGAACTCATTGAGCTGAGGAAGAAGAAGATTGAGGAGGCGATGGACGGAAGTGAGACACCTCAGC
TCTTCACTGTGTTGCCAGAGAAGAGAACAGCCACTGTTGGAGGGGCCATGATGGGATCAACCCACATTTATGACA
TGTCCACGGTTATGAGCCGGAAGGGCCCGGCTCCTGAGCTGCAAGGTGTGGAAGTGGCGCTGGCGCCTGAAGAGT
TGGAGCTGGATCCTATGGCCATGACCCAGAAGTATGAGGAGCATGTGCGGGAGCAGCAGGCTCAAGTAGAGAAGG
AGGACTTCAGTGACATGGTGGCTGAGCACGCTGCCAAACAGAAGCAAAAAAAACGGAAAGCTCAGCCCCAGGACA
GCCGTGGGGGCAGCAAGAAATATAAGGAGTTCAAGTTTTAGGTCCCCTCACACTAGCCCTTTTTTTGGCCCTACG
TCTGGATGCCTGGGCTTCACACAAGAACCACCTCTCCCGCAGTTCCCAAGGACTTGTCATTTCATGTTCTTATTT
TAGACCTGTTTTGTAAATAAAGCTGTTTCCCAAGGAAAGAGATG

FIGURE 147

CGCCGCCGCCGCCGCGGGGGAAGCCTGGGAGCCAGATCGGCGTCGCCTCGGCCTCCGTAACCCCCGCCTAGCCGG
GCCATGGCGGAACGCGGAGGGGCGGGCGGTGGTCCCGGAGGCGCCGGGGGCGGCAGCGGCCAGCGGGGATCCGGG
GTCGCCCAGTCCCCTCAGCAGCCGCCGCCGCAGCAGCAGCAGCAGCCGCCGCAGCAGCCGACGCCCCCCAAG
CTGGCCCAGGCCACCTCGTCGTCCTCGTCCACCTCGGCGGCGGCTGCCTCCTCCTCGTCCTCGTCTACCTCCACC
TCCATGGCCGTGGCGGTGGCCTCGGGCTCCGCGCCTCCCGGTGGCCCGGGAGCCAGGCCGCACCCCCGCCCCGGT
GCAGATGAACCTGTACGCCACCTGGGAGGTGGACCGGAGCTCGTCCAGCTGCGTGCCTAGGCTATTCAGCTTGAC
CCTGAAGAAACTCGTCATGCTAAAAGAAATGGACAAAGATCTTAACTCAGTGGTCATCGCTGTGAAGCTGCAGGG
TTCAAAAAGAATTCTTCGCTCCAACGAGATCGTCCTTCCAGCTAGTGGACTGGTGGAAACAGAGCTCCAATTAAC
CTTCTCCCTTCAGTACCCTCATTTCCTTAAGCGAGATGCCAACAAGCTGCAGATCATGCTGCAAAGGAGAAAACG
TTACAAGAATCGGACCATCTTGGGCTATAAGACCTTGGCCGTGGGACTCATCAACATGGCAGAGGTGATGCAGCA
TCCTAATGAAGGCGCACTGGTGCTTGGCCTACACAGCAACGTGAAGGATGTCTCTGTGCCTGTGGCAGAAATAAA
GATCTACTCCCTGTCCAGCCAACCCATTGACCATGAAGGAATCAAAT

FIGURE 148

GGAGTTTCGCCGCCGCAGTCTTCGCCACCATGCCGCCCTACACCGTGGTCTATTTCCCAGTTCGAGGCCGCTGCG
CGGCCCTGCGCATGCTGCTGGCAGATCAGGGCCAGAGCTGGAAGGAGGAGGTGGTGACCGTGGAGACGTGGCAGG
AGGGCTCACTCAAAGCCTCCTGCCTATACGGGCAGCTCCCCAAGTTCCAGGACGGAGACCTCACCCTGTACCAGT
CCAATACCATCCTGCGTCACCTGGGCCGCACCCTTGGGCTCTATGGGAAGGACCAGCAGGAGGCAGCCCTGGTGG
ACATGGTGAATGACGGCGTGGAGGACCTCCGCTGCAAATACATCTCCCTCATCTACACCAACTATGAGGCGGGCA
AGGATGACTATGTGAAGGCACTGCCCGGGCAACTGAAGCCTTTTGAGACCCTGCTGTCCCAGAACCAGGGAGGCA
AGACCTTCATTGTGGGAGACCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCTGCTGATCCATGAGGTCC
TAGCCCCTGGCTGCCTGGATGCGTTCCCCCTGCTCTCAGCATATGTGGGGCGCCTCAGTGCCCGGCCCAAGCTCA
AGGCCTTCCTGGCCTCCCCTGAGTACGTGAACCTCCCCATCAATGGCAACGGGAAACAGTGAGGGTTGGGGGGAC
TCTGAGCGGGAGGCAGAGTTTGCCTTCCTTTCTCCAGGACCAATAAAATTTCTAAGAGAGCT

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FIGURE 149

GCGTGACGTCTTTCCTGCGCGCCACCTAGCGTCTCTATCGCGCCAGTTCCTCAGCCTCAGTGCTATGAAGGTGAC
AGCGTGAGGTGACCCATCTGGCCCGCCGCGATGCTGGCAACACGGCGGCTGCTCGGCTGGTCGCTTCCCGCGCGG
GTATCTGTGCGTTTCAGCGGCGACACGACAGCACCCAAGAAAACCTCATTTGGCTCGCTGAAGGATGAAGACCGG
ATTTTCACCAACCTGTACGGCCGCCATGACTGGAGGCTGAAAGGTTCCCTGAGTCGAGGTGACTGGTACAAGACA
AAGGAGATCCTGCTGAAGGGGCCCGACTGGATCCTGGGCGAGATCAAGACATCGGGTTTGAGGGGCCGTGGAGGC
GCTGGCTTCCCCACTGGCCTCAAGTGGAGCTTCATGAATAAGCCCTCAGATGGCAGGCCCAAGTATCTGGTGGTG
AACGCAGACGAGGGGGAGCCGGGCACCTGCAAGGACCGGGAGATCTTACGCCATGATCCTCACAAGCTGCTGGAA
GGCTGCCTGGTGGGGGGCCGGGCCATGGGCGCCCGCGCTGCCTATATCTACATCCGAGGGGAATTCTACAATGAG
GCCTCCAATCTGCAGGTGGCCATCCGAGAGGCCTATGAGGCAGGTCTGATTGGCAAGAATGCTTGTGGCTCTGGC
TATGATTTTGACGTGTTTGTGGTGCGCGGGGCTGGGGCCTACATCTGTGGAGAGGAGACAGCGCTCATCGAGTCC
ATTGAGGGCAAGCAGGGCAAGCCCCGCCTGAAGCCCCCCTTCCCCGCAGACGTGGGAGTGTTTGGCTGCCCCACA
ACTGTGGCCAACGTGGAGACAGTGGCAGTGTCCCCCACAATCTGCCGCCGTGGAGGTACCTGGTTTGCTGGCTTT
GGCAGAGAACGCAACTCAGGCACCAAACTATTCAACATCTCTGGCCATGTCAACCACCCTTGCACTGTGGAGGAG
GAGATGTCTGTGCCCTTGAAAGAACTGATTGAGAAGCATGCTGGGGGTGTCACGGGCGGCTGGGACAACCTCCTT
GCTGTGATCCCTGGCGGCTCGTCTACCCCACTGATCCCCAAGTCTGTGTGTGAGACGGTGCTGATGGACTTCGAT
GCGCTGGTGCAGGCACAGACAGGCCTGGGCACAGCTGCGGTGATCGTCATGGACCGCTCGACGGACATCGTGAAA
GCCATCGCCCGCCTCATTGAGTTCTATAAGCACGAGAGCTGTGGCCAGTGTACCCCATGCCGTGAGGGTGTGGAC
TGGATGAACAAGGTGATGGCACGTTTCGTGAGGGGGGATGCCCGGCCGGCCGAGATCGACTCCCTGTGGGAGATC
AGCAAGCAGATAGAAGGCCATACGATTTGTGCTCTGGGTGACGGGGCCGCCTGGCCTGTGCAGGGTCTGATCCGC
CACTTTCGGCCGGAGCTCGAGGAGCGGATGCAGCGGTTTGCCCAGCAGCATCAGGCCCGGCAGGCTGCCTCTTAG

CCCACCACCCTGGCCTGCTGTCCTGCGTCTATCCATGTGGAATGCTGGACAATAAAGCGAGTGCTGCCCACCCTC
C

FIGURE 150

GTCAAAGCCCTGCGTCCTTCGGCCCCCAGAGCGGAGAAGCGCGCAAGGCACCGGTGGCAGCGGCGACGGCAGCTG
CGACAGCAACCCCCTGCTGGGCCGAAACTGGGCAGAGCGGAGCAGACGTCTGAAGCAGCGCGAGTGAGGCGCGAGG
GTAGCGCCCGCGCCCCGGGAAGACCCCTCGGCGCGAACCGGCAGCCCAGCCCCGGGTCCCGGTTCCCAAGGCCCCG
CCTCTAGGGCCTGGGGACTAATCGGATTGAGAGCGCGCCGGCCCGGGCCGCGAACTCGCCAATTGCGGAGGGCGG
TGGCCACCGCCCAATCCGGAGCAGACAGGTGCGAGGTCCGGAAGGCGGAGGCCAATCGGCGGCGGTTGCGACCTG
CTGGGGCAGGTCTCGGCCAATAAGGAGGCTCGAGTGACATCTTCGCGCACCAATCGGGAGTGAGGGAGCATTCGT
GCCCGCTCGCCCTTCCGGCCAGACCTCTATTTACCAGGGGCGTGCAGCCCGCTTGCCAATCAGAGCGCGGCTGAG
CGGCCCCGCAGCCAACCCCCGAGGAGCGGCCGGCTGGCGTCCGCCGCGCCCAGGAGTTGGGGATGTCCTACAAAC
CCATCGCCCCTGCTCCCAGCAGCACCCCTGGCTCCAGCACCCCTGGGCCGGGCACCCCGGTCCCTACAGGTGAGG
ATCCAGCTCCACCCCTGCTCGCCTGCCGGGCGGTCGAGGTCTCGAAGAGAAGACGGCCTGAGTTCTGCAATACTG
GGCCTGCCGCCTACCCTCGCTGAGCCTCAGTTTGCTGGCCTGTGAAGTGGGCGTGGTCACGTAAGGGCTTGTAGG
TGGAGCGCAGTGGGAGGGATTTGTCCCTGAAGTTGATCAGCATGGA**ATG**AAGCATCCTTTGGAGGGAATCGGGCG
AACCCGGTCCTGGGCTTGGAAAAGCTGGGAGGCGGCGTCCCTGCCCCGCGCTGACCTCTTACTCGCGCCTGTTGC
TGCAGGAAGCGTCCCGTCGCCGTCGGGCTCAGTGCCAGGAGCCGGCGCTCCTTTCAGACCGCTGTTTAACGACTT
TGGACCGCCTTCCATGGGCTACGTGCAGGCGATGAAGCCACCCGGCGCCCAGGGCTCCCAGAGCACCTACACGGA
CCTGCTGTCAGTCATAGAGGAGATGGGCAAAGAGATCCGGCCTACCTATGCTGGCAGCAAGAGCGCCATGGAGCG
CCTGAAGAGAGGTATCATCCATGCCCGGGCCCTAGTCAGAGAGTGCCTGGCAGAGACAGAGCGGAACGCCCGCAC
G**TAA**CAGGAAGCGCCTCGGCCTCAGCGTCTGGACCTATCCGGCCACTGCAGAGCACCCGCTTCTCCCTGGCCTTC
ATCCCGAGTTGCACTAACCATCCTGGGCTTCCTGTCCTGTGTCCCTTGGTGGGTCCCCTCCAGGAACCAAGGAGT
GGCCCTCCAGGTGGCAGCACTAAGGACACCCCCCCACAACAAGAGTTAGCAGCGAGGTCCCCATGAGTCCCACCC
ATGACCTGCCGACAGTGTTGCCCACCGGAACTTTTGTGGCCCCTACCGCTCAGCCCTTCCCAGCACTTCTCCCAC
TTTGTCCCGAGCCTCCTTCTCCCCCAGCAGGGGCACAGGCCTGGCACCTCCCTGCCTTGTGTCCTGAGCCATAGT
GACTCTTTTATCTGTGTGTCTTTTGCTAAATATGCCCTTTTTATATTAATAAAAGATGATTTGGAGTTGTGCTCT
C

FIGURE 151

CGCGGGCGGCGGTGCTAGGCTCGCCTCTGCCTCCCTCGTGGCGGGCCCGGACATGGGGTCCCGTGGCCTGAGTCC
CTCGGCCGGCGCGCAGGGCTCGGGCCGCGCGCAGCCTCCCCGCACTGACTGTCGCGCCGTGCCCTGCGCCAGGAG
GAGCGGAGGCCGCGCGCCCGCCGAGCGCCTTCAGGATGCTCATCAAGGAATACCACATTCTGCTGCCCATGAGCC
TGGACGAGTACCAGGTGGCCCAGCTCTACATGATCCAGAAAAAGAGCCGGGAGGAGTCTAGTGGTGAGGGCAGCG
GCGTGGAGATCCTGGCCAACCGGCCCTACACGGATGGGCCCGGGGGCAGCGGGCAATACACACACAAGGTGTACC
ACGTGGGCTCCCACATCCCAGGCTGGTTCCGGCACTGCTGCCCAAGGCTGCCCTGCAGGTAGAAGAGGAATCCTG
GAATGCCTACCCCTACACCCGAACCCGGTACACCTGCCCTTTCGTGGAGAAATTCTCCATTGAAATTGAGACCTA
TTACCTGCCTGATGGGGGGCAGCAGCCAAACGTCTTCAACCTGAGCGGGGCCGAGAGGAGACAGCGCATCCTGGA
CACCATCGACATCGTGCGGGATGCAGTGGCCCCAGGCGAGTACAAAGCAGAAGAGGACCCCCGGCTTTATCACTC
GGTCAAGACGGGCCGAGGGCCACTGTCTGATGACTGGGCACGGACGGCGGCACAGACGGGGCCCCTTATGTGTGC
CTATAAGCTGTGCAAGGTTGAGTTCCGCTACTGGGGCATGCAAGCCAAGATCGAGCAGTTCATCCATGATGTAGG
TACTGCGTCGGGTGATGCTGCGGCCCACCGCCAGGCCTGGTGCTGGCAGGATGAGTGGACAGAGCTGAGCATGGC
TGACATCCGGGCACTGGAAGAGGAGACTGCTCGCATGCTGGCCCAGCGCATGGCCAAGTGCAACACAGGCAGTGA
GGGTCCGAGCCCAGCCCCCCGGGAAACCGAGCACCGAGGCCCGGTCTGCGGCAGCAACACTGGCACCCCCGATGG
GCCTGAGCCCCCCCAGGCCCAGATGCCTCCCCCGATGCCAGCTTTGGGAAGCAGTGGTCCTCATCCTCCCGTTCC
TCCTACTCATCCCAACATGGAGGGGCTGTGTCTCCCCAGAGCTTGTCTGAGTGGCGCATGCAGAACATTGCCCGA
GACTCTGAGAACAGCTCCGAGGAAGAGTTCTTTGATGCCCACGAAGGCTTCTCGGACAGTGAGGAGGTCTTCCCC
AAGGAGATGACCAAGTGGAACTCCAATGACTTCATTGATGCCTTTGCCTCCCCAGTGGAGGCAGAGGGAACGCCA
GAGCCTGGAGCCGAGGCAGCTAAAGGCATTGAGGATGGGGCCCAAGCACCCAGGGACTCAGAGGGCCTGGATGGA
GCCGGGGAGCTGGGGGCTGAGGCATGCGCAGTCCACGCCCTCTTCCTTATCCTGCACAGCGGCAACATCCTGGAC
TCAGGCCCTGGAGACGCCAACTCCAAGCAGGCGGATGTGCAGACGCTGAGCTCCGCCTTCGAGGCCGTCACCCGC
ATCCACTTCCCTGAGGCCTTGGGCCACGTGGCGCTGCGACTGGTGCCCTGTCCACCCATCTGCGCCGCCGCCTAT
GCCCTTGTCTCCAACCTGAGCCCTTACAGCCACGATGGGGACAGCCTGTCTCGCTCCCAAGACCACATTCCACTG
GCTGCCCTGCCACTGCTGGCCACCTCATCCTCCCGCTACCAGGGCGCCGTGGCCACCGTCATTGCCCGCACCAAC
CAGGCCTACTCAGCCTTCCTGCGCTCACCTGAGGGTGCCGGCTTCTGTGGGCAGGTCGCACTGATTGGAGATGGT
GTTGGTGGCATCCTGGGCTTTGATGCACTCTGCCACAGTGCTAACGCGGGCACCGGGAGTCGGGGCAGCAGCCGC
CGTGGGAGCATGAACAATGAGCTGCTCTCTCCGGAGTTTGGCCCAGTGCGGGACCCCCTGGCAGATGGTGTGGAA
GGCCTGGGTCGGGGCAGCCCAGAACCCTCGGCCTTGCCTCCCCAGCGCATCCCCAGCGACATGGCCAGTCCTGAG
CCCGAGGGCTCTCAGAACAGCCTTCAGGCAGCCCCCGCAACCACCTCCTCCTGGGAGCCCCGGCGGGCAAGCACG
GCCTTCTGCCCACCCGCTGCCAGTTCCGAGGCACCTGACGGCCCCAGCAGCACTGCCCGCCTTGACTTCAAGGTC
TCTGGCTTCTTCCTCTTCGGCTCCCCACTGGGCCTGGTGCTGGCTCTGCGCAAAACTGTGATGCCCGCCCTGGAG
GCAGCCCAGATGCGCCCAGCCTGTGAACAGATCTACAACCTCTTCCACGCGGCTGACCCCTGCGCCTCACGCCTC
GAGCCCCTGCTGGCCCCGAAGTTCCAGGCCATCGCCCCACTGACCGTGCCCCGCTACCAGAAGTTCCCCCTGGGA
GATGGCTCATCCCTGCTGCTGGCCGACACTCTGCAGACGCACTCCAGCCTCTTTCTGGAGGAGCTGGAGATGCTG
GTGCCCTCAACACCCACCTCTACTAGCGGTGCCTTCTGGAAGGGCAGTGAGTTGGCCACTGACCCCCCGGCCCAG
CCAGCCGCCCCCAGCACCACCAGTGAGGTGGTTAAGATCCTGGAGCGCTGGTGGGGGACCAAGCGGATCGACTAC
TCGCTGTACTGCCCCGAGGCGCTCACCGCCTTTCCCACCGTCACGCTGCCCCACCTCTTCCACGCCAGCTACTGG
GAGTCCGCCGACGTGGTGGCGTTCATCCTGCGCCAGGTGATCGAGAAGGAGCAGGCCACAGCTGGCGGAATGCGA
GGAGCCGTCCATCTACAGCCCGGCCTTCCCCAGGCAGAAGTGGCAGCGAAAACGCACGCAGGTCAAGATCCGGGT
AGAACTGAACATCGTGGCCGGTTATGGGTCTCCCAAAGATGTGGCTGTATACGCGGCGCTGGGGCTGTCCCCGAG
CCAGACCTACATCGTGGGCCGTGCCGTGCGGAAGCTACAGGCGCAGTGCCAGTTCCTGTCAGACGGCTATGTGGC
CCACCTGGGCCAGCTGGAAGCGGGCTCGCACTCGCATGCCTCCTCGGGACCCCCGAGAGCTGCCTTGGGCAAGAG
CAGCTATGGTGTGGCTGCCCCCGTGGACTTCCTGCGCAAACAGAGCCAGCTGCTTCGCTCGAGGGGCCCCAGCCA
GGCGGAGCGTGAGGGCCCGGGAACACCACCCACCACCCTGGCACGGGGCAAAGCACGGAGCATCAGCCTGAAGCT
GGACAGCGAGGAGTGAGGCCCACACCAGCCTGGACCTGGGTTATTTATTGACACACCCAAGGGGCCCGAGGGGCT
GCGTGTGGGAGGCTGGGGACCCAGACTTTTGGCCCCAGCGCTGGCCCCCCCAGCCCCACACCCTATATCTCCGTG
TGCTCCTCGGTGTTACTTCCCTTTCATATGAGGGGACCCAGCGCCGGGGGGAGGGAGGAGGGCGTGGGCATGGGC
GCAGAGGCTTTTCCAGTGTGTATAAATCCATGAAAATAAACGCCACCTGCACCCC

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FIGURE 152

AGGCCACGTTCCACTACCGGACGCTGCACAGTGACGACGAGGGCACCGTGCTGGACGACAGCCGGGCTCGTGGCA
AGCCCATGGAGCTCATCATTGGCAAGAAGTTCAAGCTGCCTGTGTGGGAGACCATCGTGTGCACCATGCGAGAAG
GGGAGATTGCCCAGTTCCTCTGTGACATCAAGCATGTGGTCCTGTACCCGCTGGTGGCCAAGAGTCTCCGCAACA
TCGCGGTGGGCAAGGACCCCCTGGAGGGCCAGCGGCACTGCTGCGGTGTTGCACAGATGCGTGAACACAGCTCCC
TGGGCCATGCTGACCTGGACGCCCTGCAGCAGAACCCCCAGCCCCTCATCTTCCACATGGAGATGCTGAAGGTGG
AGAGCCCTGGCACGTACCAGCAGGACCCATGGGCCATGACAGACGAAGAGAAGGCAAAGGCAGTGCCACTTATCC
ACCAGGAGGGCAACCGGTTGTACCGCGAGGGGCATGTGAAGGAGGCTGCTGCCAAGTACTACGATGCCATTGCCT
GCCTCAAGAACCTGCAGATGAAGGAACAGCCTGGGTCCCCTGAATGGATCCAGCTGGACAAGCAGATCACGCCGC
TGCTGCTCAACTACTGCCAGTGCAAGCTGGTGGTCGAGGAGTACTACGAGGTGCTGGACCACCTAGCTCTTCCAT
CCTCAACAAGTACGACGACAACGTCAAGGCCTACTTCAAGCGGGGCAAGGCCCACGCGGCCGTGTGGAATGCCCA
GGAGGCCCAGGCTGACTTTGCCAAAGTGCTGGAGCTGGACCCAGCCCTGGCGCCTGTGGTGAGCCGAGAGCTGCT
GGGCCCTGGAGGCACGGATCCGGCAGAAGGACGAAGAGGACAAAGCCCGGTTCCGGGGGATCTTCTCCCATTGAC
AGGAGCACTTGGCCCTGCCTTACCTGCCAAGCCCACTGCTGCAGCTGCCAGCCCCCCTGCCCGTGCTGCGTCATG
CTTCTGTGTATATAAAGGCCTTTATTTATCTCTC

FIGURE 153

GCCCACGTCATGGCGCCCGAGGAGAACGCGGGGACCGAACTCTTGCTGCAGAGTTTGGAGCGCCGCTTCCTGGCG
GCGCGTGCACTGCGCTCCTTCCCCTGGCAGAGCTTAGAAGCAAAGTTAAGAGACTCATCAGATTCTGAGCTGCTG
CGGGATATTTTGCAGAAGACGTGCTGTATAGCCCAGAAGCCATCGTGTCGCTGGTCGGGGTCCTGCGGAGGCTGG
CTGCCTGCCGGGAGCACCAGCGGGCTCCTCAAGTCTATGTGGCCCTTACCATCTGCAACCCAGAGACGTGCCAGC
TGTTCACCACTGAGCTATGCCGGGCTGGGATCAGATGGGAAGTGGAACCTCGTCATGACCAGAAACTGTTTCCCT
ACGAAGAGCACTTGGAGATGGCAATGCTGAACCTCACACTGTAGGACTCACATACGACTCCAACGGGATTGTGAG
AATCAAGTCACTCTAGTGGGAAGAGTTTTTATATGGGAAAGCGGATAAAACTTTCATTGGACTGGAATGTTTGGA
GAATGTTAATTTCCAAATCAGGAACCACAAACTGCCCTCTAATAAGACATCAGCTATCTAAGCATGTGGGTGCTC
CCTTTCTGCCAGCAGTTCTGGTTCTTAAGAAAATCGCCATCAATCAGACATGAAATCTCTGGCTCCAAAAATAGC
ATTTTCTTTGTGCAAATAAAAACGTGTGTATCAAGTATGATGTTCCCCCAATGTGGACACACTCGGTTCCCCACA
AAGCCAAGCCCGCTGCAGCTGCCACATCCCTGGACACATTCGGTTCCTCACAAAGCCAAGCCCGCTGCAGCTGCC
ACATCCGTGGACACACTCGGTTCTTCACAAAGCCAAGCCCACTGCAGCTGCCACATCCCTGGGCTTACAGTGCAG
CAGGTGCTTTTTTCAAGACAGGAATCAAAATGTTAGGAACACGGCGGAAAGATGACACCTGGAGAGCAAACGCAG
GATGAGGAGTACTGCAGAGGTCACACGGAAGTCGCAGAACAGTAATCCGCT

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FIGURE 154

ATGGGGGAGCAGGTGCCTGGATTATCCACCCTAACAAATCTGGACAAAGGAAAACGAGGTTGCAGTAAAAACAGG
GATACCATAAGCAACCACCTCTTTCCTCAACGATGTGATGAAAGCAAAAGCCAAGTAGCTCCATATATCCAACTT
AAAAATATAAAAAGTTACGCCCGTGGGCTGCAGTTGGAGCTATGGCGGCAGCAGCTGTCACTGGGCCTAGCCTGG
GGTGTGGACCTGGGGACTCCCCAGAAGGCCCCGATGTGGAGGCTCACGGAGCGTCGGCGGAAGGCGCACAGGATG
CTAAAGCTTTACAACGGCCTCTCAGAAGGGGAAGCGGTGGGACTCCCTGCAGGGCCCGACCCCCTGGACCCCACT
GATCTGAACGGGGCACACTTTGACCCGGAAGTTTACCTAGACAAGCTGCCTAGAGAGTCCCCTCTGGCCCAGCTG
ATGGACAGTGAGACGGACATGGTGCAGCAGATCCGGGCTCTAGACAGCGACATGCAAACCCTGGTCTATGAGAAC
TACGATAAGGAGACCATCGGGGTGCAACCTGGTTGGGGCGGGGAGGAGGTGCAGGGCCTGGCCAGAGCGGGCATG
GCCGCAGGCAGGGGACAGCGACTGCTTGGGCCAGGGCAGGCGAGCTCAGCGCAGGCCAGGGCCCGGCGTGTCCGC
GGTGCAGGCAGAGCCCCCGGAGCCATGGCCAGCCCTTCCGGCAGCTCCAAAGCCACTGGCAAGCCCCGAGGCAGG
GATGGCCGGCCCAGGAGAGAGGAGGACGACGTCACTCCCGAAGAGAAGAGGCTGCGGCTGTTGCTGGAGGAGGGA
AGCGCACAGCCCGATGACGGGGAGGACGCACCGCGGCCAGGCAGGAAGGAGACCGGCACCCAGACAGGTGGCGAC
GGCAGAGGAGCAGCACGGGCAGCCCTCCTCGCCGTGGGCGGCATCAGAGCCCCCCTGCCCAGTCTTGGGGTTGCT
CCTGGATGCCGTCTGGGAGGCTTGCTCATGGTGACATCCTTATCTCCCCGTGCACGTTACCGCATTCAGAGCTTG
GGTCACCTGGACACTGAACTCAGGCGAATTTTCTCTGAGATCCTGGGAGAAGGAGGACAGTTCTCTGGAAGGTTT
TCCAGGGCCGATCACGGAAAGGATGAGAAGGGAGAGGTCCTGGTCGGGGACACAATTACGATGGCAGTG**TAA**

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FIGURE 155

GACTCCGGGGCGACCGCCGCGAGTCCGCAGTAGTTCGGGCCATGGAGGCGGAGCCGCCGCTCTACCCGATGGCGG
GGGCTGCGGGGCCGCAGGGCGACGAGGACCTGCTCGGGGTCCCGGACGGGCCCGAGGCCCCGCTGGACGAGCTGG
TGGGCGCGTACCCCAACTACAACGAGGAGGAGGAGGAGCGCCGCTACTACCGCCGCAAGCGCCTGGGCGTGCTCA
AGAACGTGCTGGCTGCCAGCGCCGGGGGCATGCTCACCTACGGCGTCTACCTGGGCCTCCTGCAGATGCAGCTGA
TCCTGCACTACGACGAGACCTACCGCGAGGTGAAGTATGGCAACATGGGGCTGCCCGACATCGACAGCAAAATGC
TGATGGGCATCAACGTGACTCCCATCGCCGCCCTGCTCTACACACCTGTGCTCATCAGGTTTTTTGGAACGAAGT
GGATGATGTTCCTCGCTGTGGGCATCTACGCCCTCTTTGTCTCCACCAACTACTGGGAGCGCTACTACACGCTTG
TGCCCTCGGCTGTGGCCCTGGGCATGGCCATCGTGCCTCTTTGGGCTTCCATGGGCAACTACATCACCAGGATGG
CGCAGAAGTACCATGAGTACTCCCACTACAAGGAGCAGGATGGGCAGGGGATGAAGCAGCGGCCTCCGCGGGGCT
CCCACGCGCCCTATCTCCTGGTCTTCCAAGCCATCTTCTACAGCTTCTTCCATCTGAGCTTCGCCTGCGCCCAGC
TGCCCATGATTTATTTCCTGAACCACTACCTGTATGACCTGAACCACACGCTGTACAATGTGCAGAGCTGCGGCA
CCAACAGCCACGGGATCCTCAGCGGCTTCAACAAGACGGTTCTGCGGACGCTCCCGCGGAGCGGAAACCTCATTG
TGGTGGAGAGCGTGCTCATGGCAGTGGCTTCCTGGCCATGCTGCTGGTGCTGGGTTTGTGCGGAGCCGCTTACCG
GCCCACGGAGGAGATCGATCTGCGCAGCGTGGGCTGGGGCAACATCTTCCAGCTGCCCTTCAAGCACGTGCGTGA
CTACCGCCTGCGCCACCTCGTGCCTTTCTTTATCTACAGCGGCTTCGAGGTGCTCTTTGCCTGCACTGGTATCGC
CTTGGGCTATGGCGTGTGCTCGGTGGGGCTGGAGCGGCTGGCTTACCTCCTCGTGGCTTACAGCCTGGGCGCCTC
AGCCGCCTCACTCCTGGGCCTGCTGGGCCTGTGGCTGCCACGCCCGGTGCCCCTGGTGGCCGGAGCAGGGGTGCA
CCTGCTGCTCACCTTCATCCTCTTTTTCTGGGCCCCTGTGCCTCGGGTCCTGCAACACAGCTGGATCCTCTATGT
GGCAGCTGCCCTTTGGGGTGTGGGCAGTGCCCTGAACAAGACTGGACTCAGCACACTCCTGGGAATCTTGTACGA
AGACAAGGAGAGACAGGACTTCATCTTCACCATCTACCACTGGTGGCAGGCTGTGGCCATCTTCACCGTGTACCT
GGGCTCGAGCCTGCACATGAAGGCTAAGCTGGCGGTGCTGCTGGTGACGCTGGTGGCGGCCGCGGTCTCCTACCT
GCGGATGGAGCAGAAGCTGCGCCGGGGCGTGGCCCCGCGCCAGCCCCGCATCCCGCGGCCCCAGCACAAGGTGCG
CGGTTACCGCTACTTGGAGGAGGACAACTCGGACGAGAGCGACGCGGAGGGCGAGCATGGGGACGGCGCGGAGGA
GGAGGCGCCGCCCGCAGGGCCCAGGCCTGGCCCCGAGCCCGCTGGACTCGGCCGCCGGCCCTGCCCGTACGAACA
GGCGCAGGGGGGAGACGGGCCGGAGGAGCAGTGAGGGGCCGCCTGGTCCCCGGACTCAGCCTCCCTCCTCGCCGG
CCTCAGTTTACCACGTCTGAGGTCGGGGGGACCCCCTCCGAGTCCCGCGCTGTCTTCAAAGGCCCCTGTCTCCCC
TCCCCCACGTTGGGGACGCCCCTCCCAGAGCCCAGGTCACCTCCGGGCTTCCGCAGCCCCCTCCAAGGCGGAGTG
GAGCCTTGGGAACCCCTCGGCCAAGCACAGGGGTTCGAAAATACAGCTGAAACCCCGCGGGCCCTTAGCACGCGC
CCCAGCGCCGGAGCACGGTCAGGGTCTTCTTGCGACCCGGCCCGCTCCAGATCCCCACAGCTCTCGGCCGCGGAC
CCGGGCCGCGTGTGAGCGCACTTTGCACCTCCTATCCCCAGGGTCCGCCGAGAGCCACGATTTTTTACAGAAAAT
GAGCAATAAAGAGATTTTGTACTGTC

FIGURE 156

ATTTCTTAACAGCAGGGCCACCAGGCAGAGCGGGACAGCCAGGAGGAAGGGCAGCTTGGCAGAGCCTCAGGATGG
ACCCCCTTGGGGACACGCTGCGGCGACTGCGGGAGGCCTTCCACGCGGGGCGCACGCGGCCAGCTGAGTTCCGGG
CTGCGCAGCTCCAAGGCCTGGGCCGCTTCCTGCAAGAAAACAAGCAGCTTCTGCACGACGCACTGGCCCAGGACC
TGCACAAGGCCACGCAGCTGGACTCCGCCTTCATCCGGAAGGAGCCCTTTGGCCTGGTCCTCATCATTGCGCCCT
GGAACTATCCGCTGAACCTGACGCTGGTGCCCCTCGTGGGAGCCCTCGCTGCAGGGAACTGTGTGGTGCTGAAGC
CATCGGAGATTAGCAAGAACGTCGAGAAGATCCTGGCCGAGGTGCTGCCCCAATACGTGGACCAGAGCTGCTTTG
CTGTGGTGCTGGGCGGGCCCCAGGAGACGGGGCAGCTGCTAGAGCACAGGTTCGACTACATCTTCTTCACAGGGA
GCCCTCGTGTGGGCAAGATTGTTATGACTGCTGCCGCCAAGCACCTGACACCTGTCACCCTGGAGCTGGGGGGCA
AGAACCCTTGCTACGTGGACGACAACTGCGACCCCCAGACCGTGGCCAACCGCGTGGCCTGGTTCCGCTACTTCA
ACGCCGGCCAGACCTGCGTGGCCCCCGACTACGTCCTATGCAGCCCTGAGATGCAGGAGAGGCTGCTGCCTGCCC
TGCAGAGCACCATCACCCGTTTCTATGGCGACGACCCCCAGAGCTCCCCAAACCTGGGCCGCATCATCAACCAGA
AACAGTTCCAGCGGCTGCGGGCATTGCTGGGCTGCGGCGTGTGGCCATTGGGGGCCAGAGCGATGAGAGCGATCG
CTACATCGCCCCCACGGTGCTGGTGGATGTGCAGGAGATGGAGCCTGTGATGCAGGAGGAGATCTTCGGGCCCAT
CCTGCCCATCGTGAACGTGCAGAGCTTGGACGAGGCCATCGAGTTCATCAACCGGCGGGAGAAGCCCCTGGCCCT
GTACGCCTTCTCCAACAGCAGCCAGGTGGTCAAGCGGGTGCTGACCCAGACCAGCAGCGGGGGCTTCTGTGGGAA
CGACGGCTTCATGCACATGACCCTGGCCAGCCTGCCTTTTGGAGGAGTGGGTGCCAGTGGGATGGGCCGGTACCA
TGGCAAGTTCTCCTTCGACACCTTCTCCCACCATCGCGCCTGCCTCCTGCGCAGCCCGGGGATGGAGAAGCTCAA
CGCCCTCCGCTACCCGCCGCAATCGCCGCGCCGCCTGAGGATGCTGCTGGTGGCCATGGAGGCCAAGGCTGCAGC
TGCACACTGCTCTGAGCCCTTCCCCAGGCCCAGGCTGTAGACCACCATGACAGCTGTCGCCTGCGGCTGGTGGAG
ACGGGGCCTGGGCTCCCGGGCCCGAGGAGGAAAAGGATTGCCAAGGCTCCAGGGCACCCCTCAAAGCAGCGCCTG
CCTCCTCCCTCCTGGGTCTTCCCTCTCCCTGCCTCAGCCTCCTCCCTCAGCCGCTCCCAACCATGAGAGCCGAGG
TGGGAGGCATGGGAAACAGTGCAGTGACTCACCCCCTGCCCCCGCACCAACCACCCATATTCAGGAGAAGAGGAC
AGACACGGCACCTCTGAGTCACCCCTCTCCTGTGGAGCGGGCGTCCGAGGGGCCCTGGCATCTGACTCAGGCCAC
ACCATGGAATCACTGCATCCAAGGCCATTCCTGCCCTCTCTGAGTCTCAGTTTTTCCATTTGTTCAGTGGAGAGA
ATTAACCATTGATACCTCCTGGCTGGGTGAGGCGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAG
GCGGATCACCTGAAATCAGGAGTTCAAGATCAGCCTGGCTAACATGGCGAAACCCCGTCTCTACTAAAAATACAA
AAATTAGCCTGGCGTGGTGGCGCATGCCTGTAATCCCAGCTACTCAGGAGGCTAAGGCAGGAGAATCGCTTGAAC
CCGGGAGGTGGAGGTTGCCGTGAGCTGAGATTGCGTCACTGAACTCCGGCCTGGGTGACAGAAGGAGGCTCTGCC
TTAAAAAAAAAAAAAAAAAAAACCTCCTGGGACTGTTGCAAGGATGAAATGAAGGATTGAGGGATTGAGGGATTG
CTGAGCTGGAGCTCCAGGTGTCCTATCTTTCTCAGTGGGGTGGCACGGAGCGGGGCCGCCTCCCTCTTCTCTCCA
GGCAGGTGGGGCTGTGGTTATGCGATAGGGTCTCCCTTCCCTCCAGCCCATGCCAGAGGAGCTTGTAACTCTTTA
TCCTCATGGTGCCCACTACGAGTCATACTCTTCCCCATGCTGCTCATCCTCCTGGGCCCCATCCACTCAGCCAAA
GCAGAATGCAGGGTTTCCTGCCTGACAACCCTTCTCACCTCCCAAGTCCCACTTTTGAACAAGCTGATGATTCTG
AAACTGGCCCAATTTCCTAACAAGCCGGATGCTTGAGAAACCTACATTTGGACAATGAGAGGCTGCTCCTGCGGC
CTGCGGGCCACCTCCTCTTCCTTGGCTCCTGCTTTCTTTTTAGACTATATCAACCTACAACTTTAGTCGGGAAGA
GGGACAGGGGTGGACCTGAGTTTCGTCTCCTGTCTCTCTGGCTGATGTCACCTGAATAAAGCCTTCTTCCCTGGC

FIGURE 157

CCCGCTGGCCCAATGGCAGCGTCCTACAGTGTAGCCTCCGCCTCCCGATTGACTGGCCTGCTTGGCAAGGCAAGT
AGCGGCGGCGCTTCAAGATGCGCTGCCTGACCACGCCTATGCTGCTGCGGGCCCTGGCCCAGGCTGCACGTGCAG
GACCTCCTGGTGGCCGGAGCCTCCACAGCAGTGCAGTGGCAGCCACCTACAAGTATGTGAACATGCAGGATCCCG
AGATGGACATGAAGTCAGTGACTGACCGGGCAGCCCGCACCCTGCTGTGGACTGAGCTCTTCCGAGGCCTGGGCA
TGACCCTGAGCTACCTGTTCCGGGAACCGGCCACCATCAACTACCCGTTCGAGAAGGGCCCGCTGAGCCCTCGCT
TCCGTGGGGAGCATGCGCTGCGCCGGTACCCATCCGGGGAGGAGCGTTGCATTGCCTGCAAGCTCTGCGAGGCCA
TCTGCCCCGCCCAGGCCATCACCATCGAGGCTGAGCCAAGAGCTGATGGCAGCCGCCGGACCACCCGCTATGACA
TCGACATGACCAAGTGCATCTACTGCGGCTTCTGCCAGGAGGCCTGTCCCGTGGATGCCATCGTCGAGGGCCCCA
ACTTTGAGTTCTCCACGGAGACCCATGAGGAGCTGCTGTACAACAAGGAGAAGTTGCTCAACAACGGGGACAAGT
GGGAGGCCGAGATCGCCGCCAACATCCAGGCTGACTACTTGTATCGGTGACGCCCCACCGGCCCGCAGCCCCTGC
TGCCCAATAAAACCACTCCGACCCCACGG

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FIGURE 158

GCGGCGCCTAGTCCCGGGCTGGCGGGAGTGCAGTTCTGAGTCCCGCCCGGCGTGCGCGGAGCGGGGCAGCCAGCA
GCGGAGGCGCGGCGCGCAGCACACCCGGGGACCATGGGCTCCATGTTCCGGAGCGAGGAGGTGGCCCTGGTCCAG
CTCTTTCTGCCCACAGCGGCTGCCTACACCTGCGTGAGTCGGCTGGGCGAGCTGGGCCTCGTGGAGTTCAGAGAC
CTCAACGCCTCGGTGAGCGCCTTCCAGAGACGCTTTGTGGTTGATGTTCGGCGCTGTGAGGAGCTGGAGAAGACC
TTCACCTTCCTGCAGGAGGAGGTGCGGCGGGCTGGGCTGGTCCTGCCCCCGCCAAAGGGGAGGCTGCCGGCACCC
CCACCCCGGGACCTGCTGCGCATCCAGGAGGAGACGGAGCGCCTGGCCCAGGAGCTGCGGGATGTGCGGGGCAAC
CAGCAGGCCCTGCGGGCCCAGCTGCACCAGCTGCAGCTCCACGCCGCCGTGCTACGCCAGGGCCATGAACCTCAG
CTGGCAGCCGCCCACACAGATGGGGCCTCAGAGAGGACGCCCCTGCTCCAGGCCCCCGGGGGGCCGCACCAGGAC
CTGAGGGTCAACTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCCTGCCCTAGAGCGCCTGCTCTGGAGGGCC
TGCCGCGGCTTCCTCATTGCCAGCTTCAGGGAGCTGGAGCAGCCGCTGGAGCACCCCGTGACGGGCGAGCCAGCC
ACGTGGATGACCTTCCTCATCTCCTACTGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGGACTGCTTC
CACTGCCACGTCTTCCCGTTTCTGCAGCAGGAGGAGGCCCGCCTCGGGGCCCTGCAGCAGCTGCAACAGCAGAGC
CAGGAGCTGCAGGAGGTCCTCGGGGAGACAGAGCGGTTCCTGAGCCAGGTGCTAGGCCGGGTGCTGCAGCTGCTG
CCGCCAGGGCAGGTGCAGGTCCACAAGATGAAGGCCGTGTACCTGGCCCTGAACCAGTGCAGCGTGAGCACCACG
CACAAGTGCCTCATTGCCGAGGCCTGGTGCTCTGTGCGAGACCTGCCCGCCCTGCAGGAGGCCCTGCGGGACAGC
TCGATGGAGGAGGGAGTGAGTGCCGTGGCTCACCGCATCCCCTGCCGGGACATGCCCCCCACACTCATCCGCACC
AACCGCTTCACGGCCAGCTTCCAGGGCATCGTGGATGCCTACGGCGTGGGCCGCTACCAGGAGGTCAACCCCGCT
CCCTACACCATCATCACCTTCCCCTTCCTGTTTGCTGTGATGTTCGGGGATGTGGGCCACGGGCTGCTCATGTTC
CTGTTCGCCCTGGCCATGGTCCTTGCGGAGAACCGACCGGCTGTGAAGGCCGCGCAGAACGAGATCTGGCAGACT
TTCTTCAGGGGCCGCTACCTGCTCCTGCTTATGGGCCTGTTCTCCATCTACACCGGCTTCATCTACAACGAGTGC
TTCAGTCGCGCCACCAGCATCTTCCCCTCGGGCTGGAGTGTGGCCGCCATGGCCAACCAGTCTGGCTGGAGTGAT
GCATTCCTGGCCCAGCACACGATGCTTACCCTGGATCCCAACGTCACCGGTGTCTTCCTGGGACCCTACCCCTTT
GGCATCGATCCTATTTGGAGCCTGGCTGCCAACCACTTGAGCTTCCTCAACTCCTTCAAGATGAAGATGTCCGTC
ATCCTGGGCGTCGTGCACATGGCCTTTGGGGTGGTCCTCGGAGTCTTCAACCACGTGCACTTTGGCCAGAGGCAC
CGGCTGCTGCTGGAGACGCTGCCGGAGCTCACCTTCCTGCTGGGACTCTTCGGTTACCTCGTGTTCCTAGTCATC
TACAAGTGGCTGTGTGTCTGGGCTGCCAGGGCCGCCTCGGCCCCCAGCATCCTCATCCACTTCATCAACATGTTC
CTCTTCTCCCACAGCCCCAGCAACAGGCTGCTCTACCCCCGGCAGGAGGTGGTCCAGGCCACGCTGGTGGTCCTG
GCCTTGGCCATGGTGCCCATCCTGCTGCTTGGCACACCCCTGCACCTGCTGCACCGCCACCGCCGCCGCCTGCGG
AGGAGGCCCGCTGACCGACAGGAGGAAAACAAGGCCGGGTTGCTGGACCTGCCTGACGCATCTGTGAATGGCTGG
AGCTCCGATGAGGAAAAGGCAGGGGGCCTGGATGATGAAGAGGAGGCCGAGCTCGTCCCCTCCGAGGTGCTCATG
CACCAGGCCATCCACACCATCGAGTTCTGCCTGGGCTGCGTCTCCAACACCGCCTCCTACCTGCGCCTGTGGGCC
CTGAGCCTGGCCCACGCCCAGCTGTCCGAGGTTCTGTGGGCCATGGTGATGCGCATAGGCCTGGGCCTGGGCCGG
GAGGTGGGCGTGGCGGCTGTGGTGCTGGTCCCCATCTTTGCCGCCTTTGCCGTGATGACCGTGGCTATCCTGCTG
GTGATGGAGGGACTCTCAGCCTTCCTGCACGCCCTGCGGCTGCACTGGGTGGAATTCCAGAACAAGTTCTACTCA
GGCACGGGCTACAAGCTGAGTCCCTTCACCTTCGCTGCCACAGATGACTAGGGCCCACTGCAGGTCCTGCCAGAC
CTCCTTCCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCCTGGC

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FIGURE 159

GAGGTCCTGTAATAAAGAGGGATCCGAACAAGCTCAGAAAGAAAATGAATTTCAAGGGGCTGAGGCCATGGTTCT
GGAGAGCGTTATGTTTGCCATTCTCGCAGAGAGGTCACTTGGGCCAAAACTCTATGGCATCTTTCCCCAAGGCCG
ACTGGAGCAGTTCATCCCGAGCCGGCGATTAGATACTGAAGAATTAAGTTTGCCAGATATTTCTGCAGAAATCGC
CGAGAAAATGGCTACATTTCATGGTATGAAAATGCCATTCAATAAGGAACCAAAATGGCTTTTTGGCACAATGGA
AAAGTATCTAAAGGAAGTGCTGAGAATTAAATTTACTGAGGAATCCAGAATTAAAAAGCTCCACAAATTGCTCAG
TTACAATCTGCCCTTGGAACTGGAAAACCTGAGATCATTGCTTGAATCTACTCCATCTCCAGTTGTATTTTGTCA
TAATGACTGTCAAGAAGGTAATATCTTGTTGCTGGAAGGCCGAGAGAATTCTGAAAAACAGAAACTGATGCTCAT
TGATTTCGAATACAGCAGTTACAATTACAGGGGATTCGACATTGGAAATCACTTCTGTGAGTGGATGTATGATTA
TAGCTATGAAAAATACCCTTTTTTCAGAGCAAACATCCGGAAGTATCCCACCAAGAAACAACAGCTCCATTTTAT
TTCCAGTTACTTGCCTGCATTCCAAAATGACTTTGAAAACCTCAGTACTGAAGAAAAATCCATTATAAAAGAAGA
AATGTTGCTTGAAGTTAATAGGTTTGCCCTTGCATCTCATTTCCTCTGGGGACTGTGGTCCATTGTACAAGCCAA
GATTTCATCTATTGAATTTGGGTACATGGACTACGCCCAAGCAAGGTTTGATGCCTATTTCCACCAGAAGAGGAA
GCTTGGGGTGTGACTGTGGGGAGGACTCCATCCACCTCATCACTGGACTGCATGGGGAGGCAGCAGAGCGGGGTC
CCCTCTGTGCTTCGACTACTGCTCCTGTGGCAGGAGGCTTTGGGTGGCTCACTACTGAACACATGTGTATGATAC
TAAAGACGGTATTAAAATGGAGCGACGTTTATTTCATCTCTTGTTTACGATTTCACTAGGACTCAGAAACGAGAT
CGGGAAGCAGAAATATAGTGCAATAGTGCAACATCTCTGAATCCTTTTAATCTAGAGAAGGCATTTCATATTTGG
GGGCTAAGGTTTCCAGTCAGATGAGGCAAACAGCAAGAGTAAGCAGTGTTACTTGCAGGTACTTTGGTTAATGTT
GATTTAAATTTTCATGAATGTGCTGGTGAACACTGTGACCAGGCTTTTGTAGATGGCGATGTGTTATAGACGGTG
CTCACTCCCAAGGGACAGCAAGTGAGCAGAGATGTACTGCAAAGTCGCCAGTCACTGCTGCAAGGTGGCCTCTGC
CTGGGGCCTCCAGAAGCTGCTCCTTTACCCTCTTGGTCCCATGGCTGAAGCTGGAGCAGCGGATTGCTCTGGAGC
AGCCAAGGCCGCCAGCGTGTGGAGCAGAGCTCTCCCCTCCTGCTGGGCGTGTGTGACACTGATGAGTTTCACTGT
ACTGCATGTGACTTCTCCCCTGCCCTTCCTCCTGATGGAGTGTGCAGACAGCCATGCGTGGCCACGGGGGCAGTG
TGAGGACCTCCCTGTCTCCCGGCTCCCCTCCCAGGGGAGCCAGCTGCTTGACCTAGCTCTTTGGGCCTCTCCTGC
CCTCTGCTCTGCCTGGAGTGTCGGATCCTGTGAGTAGGCTGGGCCTCCCCTGGGCAGGGTTCTCCAAGGGCCCGG
TTTCCCGGCCCTTACCTTTCCTGATGCCCCTGACATCATCATTCTTGTGGGAGACAGCAGCCTGTATGTGGTGTG
GGGCGTGGATCGAGTGTAGCTGTGAAATCCATATATATGAAATGTCC

FIGURE 160

CATCATTCTGTGCCGGAGATCAGTGTGGACGCCTGGTCCCGTCATCAGTTAAGTTTCTGGTTGAGCTGCATTCAC
TCATGAGGATAATCTGGAACCCAGTCGCACCCAGAGCAGAGTACAAGCAAGTTGCCAGCTCCAGGGCACTCCCTG
TGACTATGGCACGTGTGACCCTCGCATGCAAAGGAAGGCCGTTAAGCTTAACACATATTCATGGAAACTGTTGTA
AAGCTGCTAATCTGGAGGACAGAAGACAGACGCAGGCCCGTAGAGATTGCTTTGGTAATGTTCTGAAAAAGCCAG
ATCTGTTGCCAGATCCCGCGTCCTCCTTGCCAGGGAAACACACACGAACATCAGTAAAATGTGGTAATTGCCAGG
ATGCATGTGTGGAAGAAGCGTGGCAGGAGGACCAAGGAGAGTGCCCCCTGTTTCTGCTGGGGAACCAAGCAAAGC
AGGCTTCATGGAGGAGGATTCAGGTCACCCTGAAGTCAAAACCTCAGGTTGCCAGCCGCTGTCAGAGCCCCTGGG
CCAGTCCAGACCCCTCCCACCTGCGGAAGCATGGAGCCCAGGAGGCCATGTTGGGCAAACAGGCTGTGCCCAGAC
AGTGCCCCAAGACCAACTCATCACACCCACCACCTTCTCATTTTCATGTCTTGCTGTTCCTGGTCATTGTCAATG
TTAAGAACCGCAAAAGGTGTCCAAACTATACAGATCCACATAGTCTAACAGATGTCTCTATATTCCTCCTCCTCA
AACTCTCAGAGGATCCAGAACTGCAGCCGGTCGTCGCTGGGCTGTTCCTGTCCATGTGCCTGGTCACAGTGCTGG
GGAACCTGCTCATCATCCTGGCCGTCAGCCCTGACTCCCACCTCCACACCCCCATGTACTTCATCCTTTCCAACC
TGCCCTTGCCTGACATCGGTTTCACCTCCACCACGGTCCCCAAGATGATTGTGGACATCCAGTCTCACAGCAGAG
TCATCTCCTATGCAGGCTGCCTGACTCAGATGTCTCTCTTTGCCATTTTTGGAGGCATGGAAGAGAGACATGCTC
CTGAGTGTGATGGCCTATGGCCGGAACATCAACCTGTATTTCCCTGCTGCCGTATTTGGTTTTCTTCCCATCTTG
GGGACCTTTTCTCTTACTGTAAAATTGTTTCCTCCATTCTGAGGGTTTCATCATCAGGTGTTGGAGGGTACCTCG
GTTCAGATGTGTCATCTTCCCCAAGAAAGAGTGCAGTGGCCTCAGTGATGTACACGGTGGTCACCCCCATGCTGA
ACCCCTTCATGTGTCCAAGACACACAGGGCCACGGAATCTCACAGGTGTCCGAGAATTCCTCCTCCTGGGACTCT
CAGAGGACCCAGAACTGCAGCTTATCCTCACTTTGCTGTCCCTGTCCCTGTCCATGTATCTGGTCACGGTGCTGA
GGAACCTGCTCAGCATCCTGGCTGTCAGCTCTGACTCCCCCCTCCACACCCCCATGTACTTCTTCCTCTCCAAGC
TGTGCTGGGCTGACATCGGTTTCACCTCGGCCACGGTTCCCAAGATGATTGTGGACATGCAGTCACATAGCAGAG
TCATCTCTCATGCGGGCTGCCTGACGCAGATATCTTTCTTGGTCCTTTTTGCATGTATAGAAGGCATGCTCCTGA
CTGTGATGGCCTATGACTACTTTGTAGCCATCTGTCGTCCTCTGCACTACCCAGTCATTGTGAATCCTCAGCTCT
GTGTCTTCTTCTTTTTGGTGTCCTTTTTCCTTAGCTTGTTGGATTCCCAGCTGCACAGTTGGATTGTGTTACAAT
TCACCATCATCAAGAATGTGGAAATCTCTAATTTTGTCTGTGACCCCTCTCAACTTCTCAAACTTGCCTGTTCTG
ACAGCGTCATCAATAGCATATTCATATATTTCGATAGTACTATGTTTGGTTTTCTTCCCATTCCAGGGATCCTTT
TGTCTTACTATAAAATCATCCCCTCCATTCTAAGGATTTCATCATCAGATGGGAAGTATAAAGCCTTCTTCACCT
GTGGCTCTCACCTAGCAGCTGTTTGCTGA

FIGURE 161

TGAAGAAGCCTGCAAAGCCTTTACTTTCAAAGATAAAATTGAGAAATCATTGCAAGCGGCTGGAGCAAAAGAATG
CTTCAAGAAAACTCGAAATGGAAACTTAGTACTGAAAGAGCCTAAAGTAGTTCTGTATAAAAATTTGCCCATTA
AAAAAGATAAGGAGCCAGAGGGACCAGCCCAAGCCGCAGTTGCCAGCGGGTGCTTGACTAGACACGCGGCGAGAG
AACACAGACAGAATCCTGTGAGAGGTGCTCATTCGCAGGGGGAGAGCTCGCCCTGCACCTACATAACTCGGCGGT
CAGTGAGGACAAGAACAAATCTGAAGGAGGCCTCTGACATCAAGCTTGAACCAAATACGTTGAATGGCTATAAAA
GCAGTGTGACGGAACCTTGCCCCGACAGTGGTGAACAGCTGCAGCCAGCTCCTGTGCTGCAGGAGGAAGAACTGG
CTCATGAGACTGCACAAAAAGGGGAGGCAAAGTGTCATAAGAGTGACACAGGCATGTCCAAAAAGAAGTCACGAC
AAGGAAAACTTGTGAAACAGTTTGCAAAAATAGAGGAATCTACTCCAGTGCACGATTCTCCTGGAAAAGACGACG
CGGTACCAGATTTGATGGGTCCCCATTCTGACCAGGGTGAGCACAGTGGCACTGTGGGCGTGCCTGTGAGCTACA
CAGACTGTGCTCCTTCACCCGTCGGTTGTTCAGTTGTGACATCAGATAGCTTCAAAACAAAAGACAGCTTTAGAA
CTGCAAAAAGTAAAAAGAAGAGGCGAATCACAAGGTATGATGCACAGTTAATCCTAGAAAATAACTCTGGGATTC
CCAAATTGACTCTTCGTAGGCGTCATGATAGCAGCAGCAAAACAAATGACCAAGAGAATGATGGAATGAACTCTT
CCAAAATAAGCATCAAGTTAAGCAAAGACCATGACAACGATAACAATCTCTATGTAGCAAAGCTTAATAATGGAT
TTAACTCAGGATCAGGCAGTAGTTCTACAAAATTAAAAATCCAGCTAAAACGAGATGAGGAAAATAGGGGGTCTT
ATACAGAGGGGCTTCATGAAAATGGGGTGTGCTGCAGTGATCCTCTTTCTCTCTTGGAGTCTCGAATGGAGGTGG
ATGACTATAGTCAGTATGAGGAAGAAAGTACAGATGATTCCTCCTCTTCTGAGGGCGATGAAGAGGAGGATGACT
ATGATGATGACTTTGAAGACGATTTTATTCCTCTTCCTCCAGCTAAGCGCTTGAGGTTAATAGTTGGAAAAGACT
CTATAGATATTGACATTTCTTCAAGGAGAAGAGAAGATCAGTCTTTAAGGCTTAATGCCTAAGCTCTTGGTCTTA
ACTTGACCTGGGATAACTACTTTAAAGAAATAAAAAATTCCAGTCAATTATTCCTCAACTGAAAGTTTAGTGGCA
GCACTTCTATTGTCCCTTCACTTATCAGCATACTATTGTAGAAAGTGTACAGCATACTGACTCAATTCTTAAGTC
TGATTTGTGCAAATTTTTATCGTACTTTTTAAATAGCCTTCTTACGTGCAATTCTGAGTTAGAGGTAAAGCCCTG
TTGTAAAATAAAGGCTCAAGCAAAATTGTACAGTGATAGCAACTTTCCACACAGGACGTTGAAAACAGTAATGTG
GCTACACAGTTTTTTTAACTGTAAGAGCATCAGCTGGCTCTTTAATATATGACTAAACAATAATTTAAAACAAAT
CATAGTAGCAGCATATTAAGGGTTTCTAGTATGCTAATATCACCAGCAATGATCTTTGGCTTTTTGATTTATTTG
CTAGATGTTTCCCCCTTGGAGTTTTGTCAGTTTCACACTGTTTGCTGGCCCAGGTGTACTGTTTGTGGCCTTTGT
TAATATCGCAAACCATTGGTTGGGAGTCAGATTGGTTTCTT

FIGURE 162

CGCGGGGGGCGCGACGGCGGCGGCGGCGGCCGGTTGGGGGCGGGGGGCTCGGACGCTGCGGGGACTCATTTTTCC
CGTCAGCGGAGGGAGCGAGCGGTGCTGCGGCCCGCGCCGCCATCTTGGATTTTACTCTCCATTTTTCTCTGGAAT
TATTTTTGGTGATTAATTTTCTGGGGGGGACTGGGACGCGGGGCCCGGCGGCGCGGCCCCGCATCGCAGCGGCCG
GGCAGCGGGGCCTGGGACGCGCCCCGAGGAGGAGCGGGGCGGCGCAGGCGGAGAGAACATTGAAAGTATTCTCTA
AGCTATTTGAAGAGAGTGACTAAATGCACCTGGGTCAGGCTGTCTGTGGGTATGAAGTGGTTGGGAGAATCCAAG
AACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATGACCATCAGCAGAATCAATCAAAATTACAG
CACACGGGGAAGGACACCCTGAAGGCTGGCAAAAATGCAGTCGAGAGGAGGTCGAACAGATGTAATGGTAACTCG
GGATTTGAAGGACAGAGTCGCTATGTACCATCCTCTGGAATGTCCGCCAAGGAACTCTGTGAAAATGATGACCTA
GCAACCAGTTTGGTTCTTGATCCCTATTTAGGTTTTCAAACACACAAAATGAATACTAGCGCCTTTCCTTCGAGG
AGCTCAAGGCATTTTTCAAAATCTGACAGTTTTTCTCACAACAACCCTGTGAGATTTAGGCCTATTAAAGGAAGG
CAGGAAGAACTAAAGGAAGTAATTGAACGTTTTAAGAAAGATGAACACTTGGAGAAAGCCTTCAAATGTTTGACT
TCAGGCGAATGGGCACGGCACTATTTTCTCAACAAGAATAAAATGCAGGAGAAATTATTCAAAGAACATGTATTT
ATTTATTTGCGAATGTTTGCAACTGACAGTGGATTTGAAATATTGCCATGTAATAGATACTCATCAGAACAAAAT
GGAGCCAAAATAGTTGCAACAAAAGAGTGGAAACGAAATGACAAAATAGAATTACTGGTGGGTTGTATTGCCGAA
CTTTCAGAAATTGAGGAGAACATGCTACTTAGACATGGAGAAAACGACTTCAGTGTCATGTACTCCACAAGGAAA
AACTGTGCTCAACTCTGGCTGGGTCCTGCTGCGTTTATAAACCATGATTGCAGACCTAATTGTAAGTTTGTGTCA
ACTGGTCGAGATACAGCATGTGTGAAGGCTCTAAGAGACATTGAACCTGGAGAAGAAATTTCTTGTTATTATGGA
GATGGGTTCTTTGGAGAAAATAATGAGTTCTGCGAGTGTTACACTTGCGAAAGACGGGGCACTGGTGCTTTTAAA
TCCAGAGTGGGACTGCCTGCGCCTGCTCCTGTTATCAATAGCAAATATGGACTCAGAGAAACAGATAAACGTTTA
AATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAATTCAGACAGTCAATCTGTCAGCTCTAACACTGATGCAGAT
ACCACTCAGGAAAAAAACAATGCAAGTAAGTAAGGGAGATTTGATAAGCATATCTTTTAAAAGTATTTTCACACA
ATTTGCTTTATAAAGTGTGCTTCAGTAGTTTTAAACTTTTAAATACTCAGAGAGACTGGGACTTGTGAGCTTTGG
CTGCACTTCAAGGCTCTAGACGTGATTTGAGTAGAGGCACAGTCTGTATCCCATCTCTAACTTCAGTACCGTCCT
CTAGACTATTTTTCTTGAATACCTTGGTAACTGGATATGAGTTCTTCATCATATGTTCCAAGGTCATCATATGTT
TTAAACATTTTCAAGGTGTTAGAGACTGTGATGATGTCGCTAAGTCCTGCAAGAAGACAAAAGGACTGAGTAGAA
TTAAATTAGACTCTATACATTCCAGTGCCTAGCCAGTTTGTTAGAAAAGATGATGGACTTGGGGAATTCATAGCT
TCTGGCCTTAAGGCTTCCACCTTTTCATTGCTTGCTGACCTTTTTCAAAACGAACTGACTCAGTTCAGCAGACCA
CCAGTACCAGACTCAGAATTGTGATAGAGGAGCATTTTGAACAGTGCCGTATTGTGACATGCTGTATTGGCTACT
CCAGAAAGTAGGAGTAAAGATGGAAAGGAGAAAGAAGCAACCTCTGAGATTCCAGTGGTGTGTGGGGGCAAGATC
TGATGGAAACTGAAAAAGAGAACGAAGACTAAACAAAGAGAAAGGAAAGAGAAGAAACCCTAAATGGGCAAAGGA
AAGCACATCCTGTTTGCGGAGCTTTGAAATATTGGAACCATTTCTAATTGCTCCTGTTTTTCTGGGTAACACCAG
TTTTCTGTAGTTGCCACTAAAGCAGTAGACTCTTGAGTCTCACTTGTCTCTGAGAGAGACAGAAGTTAGAAAGTT
TTGACTTGGCGATTCCGAAAGTATGCCTTTGTTGGCACTTAAATGTCCAGTGAGACTTCTTGGCACCTTAGAGCC
CTCTGAGATACTGATTATTTTAGGTTCTTCTCCCTACTTTCAGATGTTTTCAGCCCAACACTGGGTGCTCTCTTC
CACTACAGAGAATCCTGAAGAAAAGGGAAGGTGTTTCCCATGATGGTGAATGTCACTGCCATGAATTCCTGAATC
TACCTGCTGCTGGGAGTCAGAGTCCAAGCATAACCCGTGTAGCATAAAAGCAGCGCTGTAGCCCTATTCCAGTCT
TTTTCGTTAATGTCCAGAGTGAACAACAAGAGTTAGTCAATCATTAACTGTTGACTGTTGATTCTCATAATAAAT
GCAGCATAACGACC

FIGURE 163

GCCTGGGTTGCGCTGCCGGCCACGTCCCCGCGCCGGGCCTCAGGCTCCTTCCTACTGTCCGAGGGCCACCAGGCC
GCCGGGGGCCTGCTGCGCCCGGATGCGTCTGTTACTAGAGTGGAGAGTCTACCTTCGTCTCACATGTGCCACAAA
GGATGGCATGGCCCGGGAGTGCCCCACCACGTGGCTTTCACCCCCTGCAAAGCCAGACTTCGCCCAGCGACACAG
TGTCAAGCCCACAGCTCTCCAAGGAGGAAGATGGTCCAGGCTGGGAGCATCCCCTTAGCAGCAGCCTCTGATCCC
TTGGCCAAGCAGGAGGGAACCATTAGCAGCCTGAGGAGCTGGCTGGCTGGGAGCCTCGGGGACCGCCCAGCCTTG
CTCCCAGCTCACCCACAAGATGTGGACAGCTCTTGTGCTCATTTGGATTTTCTCCTTGTCCTTATCTGAAAGCCA
TGCGGCATCCAACGATCCACGCAACTTTGTCCCTAACAAAATGTGGAAGGGATTAGTCAAGAGGAATGCATCTGT
GGAAACAGTTGATAATAAAACGTCTGAGGATGTAACCATGGCAGCAGCTTCTCCTGTCACATTGACCAAAGGGAC
TTCGGCAGCCCACCTCAACTCTATGGAAGTCACAACAGAGGACACAAGCAGGACAGATGTGAGTGAACCAGCAAC
TTCAGGAGGTGCAGCTGATGGTGTGACCTCCATTGCTCCCACGGCTGTGGCCTCCAGTACGACTGCGGCCTCCAT
TACGACTGCGGCCTCCAGTATGACTGTGGCCTCCAGTGCTCCCACGACTGCAGCCTCCAGTACAACTGTGGCCTC
CATTGCTCCCACGACTACAGCCTCCAGTATGACTGCGGCCTCCAGCACTCCCATGACACTTGCACTCCCCGCGCC
CACGTCCACTTCCACAGGGCGGACCCCGTCCACTACCGCCACTGGGCATCCATCTCTCAGCACAGCCCTCGCACA
AGTGCCAAAGAGCAGCGCGTTGCCAAGAACAGCAACCCTGGCCACATTGGCCACACGTGCTCAGACTGTAGCGAC
CACAGCAAACACAAGCAGCCCCATGAGCACTCGTCCAAGTCCTTCCAAGCACATGCCCAGTGACACCGCGGCAAG
CCCTGTACCCCCTATGCGTCCCCAAGCACAAGGTCCCATTAGCCAGGTGTCAGTGGACCAGCCTGTGGTTAACAC
AACAAATAAATCCACACCCATGCCCTCAAACACAACCCCAGAGCCCGCCCCCACCCCCACAGTGGTGACCACCAC
CAAGGCACAAGCCAGGGAGCCAACTGCCAGCCCAGTGCCAGTACCTCACACCAGCCCAATCCCTGAGATGGAGGC
CATGTCCCCCACGACACAGCCAAGCCCCATGCCATATACCCAGAGGGCCGCTGGGCCAGGCACATCCCAGGCACC
GGAGCAGGTAGAGACTGAAGCCACACCAGGTACTGATTCCACTGGGCCAACACCCAGGAGCTCAGGGGGCACTAA
GATGCCAGCCACGGACTCGTGCCAGCCCAGCACCCAAGGCCAGTACATGGTGGTCACCACTGAGCCCCTCACCCA
GGCCGTGGTAGACAAAACTCTCCTTCTGGTGGTGCTGTTACTCGGGGTGACCCTTTTCATCACAGTCTTGGTTTT
GTTTGCCCTGCAGGCCTATGAGAGCTACAAGAAGAAGGACTACACCCAGGTGGACTACTTAATCAACGGGATGTA
TGCGGACTCAGAAATGTGAGGGGGGCGGGGGCCTGGCGGGAGGCCTGGCCCCTTCCTCGTCCTTTCCTTTTGCCT
TTGAGACCAAACCAAGTGCTTCCAAATTCTTTTGGTGCAATTGAGGAGATATGCCAGATGCTTAAACACATTTAA
TTGCTGTCAGATTAATTCCATGATCACTAAAGAGTTGCTGCTTTTTTCATATTTATTTTTGTAAATGATTCTGTG
CCCAGGAGCAGCTGGGGGTTCCACCTCAGGGTGGGGCGGGCAGGACCCCGTCTCCCCAGGTGTCGGAGCCTGACC
TGAATTAAAGTACTGACTGCTCGCC

FIGURE 164A

ATGGAGCCCGAGTGAGCGCGGCGCGGGCCCGTCCGGCCGCCGGACAACATGGAGGCAGCGCCGCCCGGGCCGCCG
TGGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGGCGCTGTGCGGCTGCCCGGCCCCCGCCGCGGCCTCGCCGCTC
CTGCTATTTGCCAACCGCCGGGACGTACGGCTGGTGGACGCCGGCGGAGTCAAGCTGGAGTCCACCATCGTGGTC
AGCGGCCTGGAGGATGCGGCCGCAGTGGACTTCCAGTTTTCCAAGGGAGCCGTGTACTGGACAGACGTGAGCGAG
GAGGCCATCAAGCAGACCTACCTGAACCAGACGGGGGCCGCCGTGCAGAACGTGGTCATCTCCGGCCTGGTCTCT
CCCGACGGCCTCGCCTGCGACTGGGTGGGCAAGAAGCTGTACTGGACGGACTCAGAGACCAACCGCATCGAGGTG
GCCAACCTCAATGGCACATCCCGGAAGGTGCTCTTCTGGCAGGACCTTGACCAGCCGAGGGCCATCGCCTTGGAC
CCCGCTCACGGGTACATGTACTGGACAGACTGGGGTGAGACGCCCCGGATTGAGCGGGCAGGGATGGATGGCAGC
ACCCGGAAGATCATTGTGGACTCGGACATTTACTGGCCCAATGGACTGACCATCGACCTGGAGGAGCAGAAGCTC
TACTGGGCTGACGCCAAGCTCAGCTTCATCCACCGTGCCAACCTGGACGGCTCGTTCCGGCAGAAGGTGGTGGAG
GGCAGCCTGACGCACCCCTTCGCCCTGACGCTCTCCGGGGACACTCTGTACTGGACAGACTGGCAGACCCGCTCC
ATCCATGCCTGCAACAAGCGCACTGGGGGGAAGAGGAAGGAGATCCTGAGTGCCCTCTACTCACCCATGGACATC
CAGGTGCTGAGCCAGGAGCGGCAGCCTTTCTTCCACACTCGCTGTGAGGAGGACAATGGCGGCTGCTCCCACCTG
TGCCTGCTGTCCCCAAGCGAGCCTTTCTACACATGCGCCTGCCCCACGGGTGTGCAGCTGCAGGACAACGGCAGG
ACGTGTAAGGCAGGAGCCGAGGAGGTGCTGCTGCTGGCCCGGCGGACGGACCTACGGAGGATCTCGCTGGACACG
CCGGACTTCACCGACATCGTGCTGCAGGTGGACGACATCCGGCACGCCATTGCCATCGACTACGACCCGCTAGAG
GGCTATGTCTACTGGACAGATGACGAGGTGCGGGCCATCCGCAGGGCGTACCTGGACGGGTCTGGGGCGCAGACG
CTGGTCAACACCGAGATCAACGACCCCGATGGCATCGCGGTCGACTGGGTGGCCCGAAACCTCTACTGGACCGAC
ACGGGCACGGACCGCATCGAGGTGACGCGCCTCAACGGCACCTCCCGCAAGATCCTGGTGTCGGAGGACCTGGAC
GAGCCCCGAGCCATCGCACTGCACCCCGTGATGGGCCTCATGTACTGGACAGACTGGGGAGAGAACCCTAAAATC
GAGTGTGCCAACTTGGATGGGCAGGAGCGGCGTGTGCTGGTCAATGCCTCCCTCGGGTGGCCCAACGGCCTGGCC
CTGGACCTGCAGGAGGGGAAGCTCTACTGGGGAGACGCCAAGACAGACAAGATCGAGGTGATCAATGTTGATGGG
ACGAAGAGGCGGACCCTCCTGGAGGACAAGCTCCCGCACATTTTCGGGTTCACGCTGCTGGGGGACTTCATCTAC
TGGACTGACTGGCAGCGCCGCAGCATCGAGCGGGTGCACAAGGTCAAGGCCAGCCGGGACGTCATCATTGACCAG
CTGCCCGACCTGATGGGGCTCAAAGCTGTGAATGTGGCCAAGGTCGTCGGAACCAACCCGTGTGCGGACAGGAAC
GGGGGGTGCAGCCACCTGTGCTTCTTCACACCCCACGCAACCCGGTGTGGCTGCCCCATCGGCCTGGAGCTGCTG
AGTGACATGAAGACCTGCATCGTGCCTGAGGCCTTCTTGGTCTTCACCAGCAGAGCCGCCATCCACAGGATCTCC
CTCGAGACCAATAACAACGACGTGGCCATCCCGCTCACGGGCGTCAAGGAGGCCTCAGCCCTGGACTTTGATGTG
TCCAACAACCACATCTACTGGACAGACGTCAGCCTGAAGACCATCAGCCGCGCCTTCATGAACGGGAGCTCGGTG
GAGCACGTGGTGGAGTTTGGCCTTGACTACCCCGAGGGCATGGCCGTTGACTGGATGGGCAAGAACCTCTACTGG
GCCGACACTGGGACCAACAGAATCGAAGTGGCGCGGCTGGACGGGCAGTTCCGGCAAGTCCTCGTGTGGAGGGAC
TTGGACAACCCGAGGTCGCTGGCCCTGGATCCCACCAAGGGCTACATCTACTGGACCGAGTGGGGCGGCAAGCCG
AGGATCGTGCGGGCCTTCATGGACGGGACCAACTGCATGACGCTGGTGGACAAGGTGGGCCGGGCCAACGACCTC
ACCATTGACTACGCTGACCAGCGCCTCTACTGGACCGACCTGGACACCAACATGATCGAGTCGTCCAACATGCTG
GGTCAGGAGCGGGTCGTGATTGCCGACGATCTCCCGCACCCGTTCGGTCTGACGCAGTACAGCGATTATATCTAC
TGGACAGACTGGAATCTGCACAGCATTGAGCGGGCCGACAAGACTAGCGGCCGGAACCGCACCCTCATCCAGGGC
CACCTGGACTTCGTGATGGACATCCTGGTGTTCCACTCCTCCCGCCAGGATGGCCTCAATGACTGTATGCACAAC
AACGGGCAGTGTGGGCAGCTGTGCCTTGCCATCCCCGGCGGCCACCGCTGCGGCTGCGCCTCACACTACACCCTG
GACCCCAGCAGCCGCAACTGCAGCCCGCCCACCACCTTCTTGCTGTTCAGCCAGAAATCTGCCATCAGTCGGATG
ATCCCGGACGACCAGCACAGCCCGGATCTCATCCTGCCCCTGCATGGACTGAGGAACGTCAAAGCCATCGACTAT
GACCCACTGGACAAGTTCATCTACTGGGTGGATGGGCGCCAGAACATCAAGCGAGCCAAGGACGACGGGACCCAG
CCCTTTGTTTTGACCTCTCTGAGCCAAGGCCAAAACCCAGACAGGCAGCCCCACGACCTCAGCATCGACATCTAC
AGCCGGACACTGTTCTGGACGTGCGAGGCCACCAATACCATCAACGTCCACAGGCTGAGCGGGGAAGCCATGGGG
GTGGTGCTGCGTGGGGACCGCGACAAGCCCAGGGCCATCGTCGTCAACGCGGAGCGAGGGTACCTGTACTTCACC
AACATGCAGGACCGGGCAGCCAAGATCGAACGCGCAGCCCTGGACGGCACCGAGCGCGAGGTCCTCTTCACCACC
GGCCTCATCCGCCCTGTGGCCCTGGTGGTAGACAACACACTGGGCAAGCTGTTCTGGGTGGACGCGGACCTGAAG
CGCATTGAGAGCTGTGACCTGTCAGGGGCCAACCGCCTGACCCTGGAGGACGCCAACATCGTGCAGCCTCTGGGC
CTGACCATCCTTGGCAAGCATCTCTACTGGATCGACCGCCAGCAGCAGATGATCGAGCGTGTGGAGAAGACCACC

FIGURE 164B

GGGGACAAGCGGACTCGCATCCAGGGCCGTGTCGCCCACCTCACTGGCATCCATGCAGTGGAGGAAGTCAGCCTG
GAGGAGTTCTCAGCCCACCCATGTGCCCGTGACAATGGTGGCTGCTCCCACATCTGTATTGCCAAGGGTGATGGG
ACACCACGGTGCTCATGCCCAGTCCACCTCGTGCTCCTGCAGAACCTGCTGACCTGTGGAGAGCCGCCCACCTGC
TCCCCGGACCAGTTTGCATGTGCCACAGGGGAGATCGACTGTATCCCCGGGGCCTGGCGCTGTGACGGCTTTCCC
GAGTGCGATGACCAGAGCGACGAGGAGGGCTGCCCCGTGTGCTCCGCCGCCCAGTTCCCCTGCGCGCGGGGTCAG
TGTGTGGACCTGCGCCTGCGCTGCGACGGCGAGGCAGACTGTCAGGACCGCTCAGACGAGGCGGACTGTGACGCC
ATCTGCCTGCCCAACCAGTTCCGGTGTGCGAGCGGCCAGTGTGTCCTCATCAAACAGCAGTGCGACTCCTTCCCC
GACTGTATCGACGGCTCCGACGAGCTCATGTGTGAAATCACCAAGCCGCCCTCAGACGACAGCCCGGCCCACAGC
AGTGCCATCGGGCCCGTCATTGGCATCATCCTCTCTCTCTTCGTCATGGGTGGTGTCTATTTTGTGTGCCAGCGC
GTGGTGTGCCAGCGCTATGCGGGGGCCAACGGGCCCTTCCCGCACGAGTATGTCAGCGGGACCCCGCACGTGCCC
CTCAATTTCATAGCCCCGGGCGGTTCCCAGCATGGCCCCTTCACAGGCATCGCATGCGGAAAGTCCATGATGAGC
TCCGTGAGCCTGATGGGGGGCCGGGGCGGGGTGCCCCTCTACGACCGGAACCACGTCACAGGGGCCTCGTCCAGC
AGCTCGTCCAGCACGAAGGCCACGCTGTACCCGCCGATCCTGAACCCGCCGCCCTCCCCGGCCACGGACCCCTCC
CTGTACAACATGGACATGTTCTACTCTTCAAACATTCCGGCCACTGCGAGACCGTACAGGCCCTACATCATTCGA
GGAATGGCGCCCCCGACGACGCCCTGCAGCACCGACGTGTGTGACAGCGACTACAGCGCCAGCCGCTGGAAGGCC
AGCAAGTACTACCTGGATTTGAACTCGGACTCAGACCCCTATCCACCCCCACCCACGCCCCACAGCCAGTACCTG
TCGGCGGAGGACAGCTGCCCGCCCTCGCCCGCCACCGAGAGGAGCTACTTCCATCTCTTCCCGCCCCCTCCGTCC
CCCTGCACGGACTCATCC**TGA**CCTCGGCCGGGCCACTCTGGCTTCTCTGTGCCCCTGTAAATAGTTTTAAATATG
AACAAAGAAAAAAATATATTTTATGATTTAAAAAATAAATATAATTGGGATTTTAAAAACATGAGAAATGTGAAC
TGTGATGGGGTGGGCAGGGCTGGGAGAACTTTGTACAGTGGAGAAATATTTATAAACTTAATTTTGTAAAACAG

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FIGURE 165

GGAGGGAATCCCTGGGTCCTCACAGGAACAGTCAGCAAGCCACACCTGACGCCTGCTGTGGGCCCATCCCTGCGG
TGCTGGAGAAGACAGACAAGGCCTGGTCACTGCCTCTGCAGGGTCCCCAGTCCGTGGAAGGAGACAGTAATCTAG
GCATTTTCGGTGGGGAAGCTGAGCTGTTCTCGTGTCCTGAAGGCCAGGCGGGAACAGCCGTCTTCAGAGGGAAGG
GAGAAAATGCACATCGCATCAGTGGAGAAGGGCCTGACTTCCCTCAGCATGGTGGAGGGAGAATGGGTGTGGGAG
CTTCCTGCCTGCCCTGGGGCACTGAGGCAGCATCGCCCGGGCAGTTGAAGAAAGTCCATGTTGCCAGTTTGGCTA
TTTCCACTGCCGGGGAGGCCACTGTGGGAGGTCTTGTTCCCGAGAAATGCACCAGCCAGTCCCAGGACTCTCTGA
AACCTTTCCTGGGCTCCTTAGTCCAGCTCCAAGCTGCCCCTCTGGCCCTGTGCTACACCTGGTGCTCCCTGCTCT
CGCTTCCAGCCATCTTCTCTAGAGTGATCAATGTTGATGGGACGAAGAGGCGGACCCTCCTGGAGGACAAGCTCC
CGCACATTTTCGGGTTCACGCTGCTGGGGGACTTCATCTACTGGACTGACTGGCAGCGCCGCAGCATCGAGCGGG
TGCACAAGGTCAAGGCCAGCCGGGACGTCATCATTGACCAGCTGCCCGACCTGATGGGGCTCAAAGCTGTGAATG
TGGCCAAGGTCGTCGGAAGGGAAATACCTGCTTCCCAAGCGGTATTGAATCTTAATGCAGTGAAGAAGAAAGAGA
AGCAGAAGAGCTCAGTTTCCACGTTGAAATGGGCCGACCCCTCATATCCTACATGA

FIGURE 166A

CAGATAAGAAAACAAGCTCAGAGAGATGTGGTGACTTGCTCAAATAGTGACAGAACTTCCTCGGCCATATGGAGG
GGTCATATAATACCCTTGTGTCTTCAGTTTGAGGAGAGCTTGTTTCATATCCATATCCCACTGTATTCCTGCTAA
TCTGCTAATGCAGTAAATTGGAGGAAAACTGTTACCAGGATAACCTGTAATGGGCAAGGAGCCACAAAGAAGAAA
ACATTTCTTTTAATTTTTAAACTTGGTTTGAAAGACCAGC**ATG**TTTTGGAAATTTGATCTTCACTCATCATCCCA
CATAGACACACTTCTAGAAAGAGAAGATGTAACACTGAAGGAGTTAATGGATGAGGAAGATGTTTTACAGGAATG
TAAAGCTCAGAACCGCAAACTTATAGAGTTTCTGTTAAAAGCAGAATGTCTCGAAGATTTAGTCTCATTCATTAT
AGAAGAACCACCTCAAGACATGGATGAAAAGATCAGATACAAGTATCCAAATATATCTTGTGAGTTGCTCACTTC
TGATGTCTCCCAGATGAATGATAGACTGGGAGAAGATGAATCCTTGCTAATGAAATTATATAGCTTCCTCCTAAA
CGATTCCCCTTTGAATCCACTACTTGCCAGTTTCTTCAGCAAGGTGCTAAGTATTCTTATCAGCAGAAAACCAGA
ACAGATTGTGGATTTCTTAAAGAAGAAGCATGATTTTGTAGACCTTATTATAAAGCACATAGGAACTTCTGCTAT
CATGGATTTGTTGCTCAGGCTCCTGACGTGTATCGAACCTCCACAGCCCAGGCAAGATGTGCTGAATTGGTTAAA
TGAGGAGAAAATTATCCAGAGGCTTGTGGAAATAGTTCATCCATCGCAAGAAGAAGATCGACATTCAAATGCATC
ACAATCACTTTGTGAAATTGTTCGCCTGAGCAGAGACCAGATGTTACAAATTCAGAACAGTACAGAGCCCGACCC
CCTGCTTGCCACTCTAGAAAAGCAAGAAATTATAGAGCAGCTTCTATCAAATATTTTCCACAAGGAGAAAAATGA
GTCAGCCATAGTCAGTGCAATCCAGATATTGCTGACTTTACTTGAGACACGACGACCAACATTTGAAGGCCATAT
AGAGATCTGCCCACCAGGCATGAGCCATTCAGCTTGTTCAGTAAACAAGAGTGTTCTAGAAGCCATCAGAGGAAG
ACTTGGATCTTTTCATGAACTCCTGCTGGAGCCACCCAAGAACATGTTCTTCAAGTATACATGGAATAACTTTTT
GCATACACAAGTGGAAATTTGTATTGCACTGATTCTTGCAAGTCCTTTTGAAAACACAGAAAATGCCACAATTAC
CGATCAAGACTCCACTGGTGATAATTTGTTATTAAAACATCTTTTCCAAAAATGTCAATTAATAGAACGAATACT
TGAAGCCTGGGAAATGAATGAGAAGAAACAGGCTGAGGGAGGAAGACGGCATGGTTACATGGGACACCTAACGAG
GATAGCTAACTGTATCGTGCACAGCACTGACAAGGGCCCCAACAGTGCATTAGTGCAGCAGCTTATCAAAGATCT
TCCCGACGAAGTCAGGGAACGATGGGAGACGTTCTGCACAAGCTCCTTAGGAGAAACTAACAAGAGGAACACGGT
AGATCTAGCCTTTTCTGATTATCAGATGCAACAAATGACGTCCAATTTTATTGACCAGTTTGGCTTCAACGATGA
GAAGTTTGCAGATCAAGATGACATTGGCAATGTTTCTTTTGATCGAGTATCAGACATCAACTTTACTCTCAATAC
AAATGAAAGTGGAAATATTGCCTTGTTTGAAGCATGTTGTAAGGAAAGAATACAACAGTTTGATGATGGTGGCTC
TGATGAGGAAGATATATGGGAGGAAAAGCACATCGCATTCACACCAGAATCCCAAAGACGATCCAGCTCGGGGAG
TACAGACAGTGAGGAAAGTACAGACTCTGAAGAAGAAGATGGAGCAAAGCAAGACTTGTTTGAACCCAGCAGTGC
CAACACGGAGGATAAAATGGAGGTGGACCTGAGTGAACCACCCAACTGGTCAGCTAACTTTGATGTCCCAATGGA
AACAACCCACGGTGCTCCATTGGATTCTGTGGGATCTGATGTCTGGAGCACAGAGGAGCCGATGCCAACTAAAGA
GACGGGCTGGGCTTCTTTTTCAGAGTTCACGTCTTCCCTGAGCACAAAAGATTCTTTAAGGAGTAATTCTCCAGT
GGAAATGGAAACCAGCACTGAACCCATGGACCCTCTGACTCCCAGTGCGGCTGCCCTGGCAGTGCAGCCAGAAGC
GGCAGGCAGTGTGGCCATGGAAGCCAGCTCTGACGGAGAGGAGGATGCAGAAAGTACAGACAAGGTAACTGAGAC
AGTGATGAATGGCGGCATGAAGGAAACGCTCAGCCTCACTGTAGATGCCAAGACAGAGACTGCGGTCTTCAAAAG
TGAGGAAGGGAAACTGTCTACCTCTCAAGATGCTGCTTGTAAAGACGCAGAGGAGTGTCCCGAGACTGCAGAGGC
GAAGTGCGCGGCACCCAGGCCTCCCAGCAGCAGTCCCGAGCAGAGGACTGGCCAACCAAGCGCACCAGGTGACAC
TTCAGTGAATGGCCCTGTA**TGA**CGGGTGACGTCTGCTGCTGCTGACTGAGGACTGCAGACCGCCACCACTCAGGG
GCTCTGGAGGGGTCAGCTGGAGCCCACCAAGCTGTCACTGCTGCACTCACTCTGCAAGGGATCAGGACCAGCAAC
CTTTATATTCTAGATTCTAAGACATTGTACAGAGAAATTCAGAAGTGTAAAAATATTGCACATTGACAAATACCA
AGAATTTTTGCGTATGTTTATATTGTATTGTTCTAAATAATGGGTAGCCTGTGAAATAAGATCTTGCCACCCATG
TAATAATAGTAGTAATACTATAGTTAAAATGGCTGTAAGAATAGTTTTATAAAAGTGAATACACAGATCTATTGT
ATTTGAAACATAACTTTGACAATTATTAGTGTGACCAAAGTATTAGGCGGTTTTCATACATTTTTCACCTTGTAC
AAAATTATGAATTCATTTTTCCTCCAGGCCGACAAGGAGTTGTAGAATGAAAATGCCCTCTAAGTGTTATTTTGG
TTGTTCTAACTTACAAAAGTGATTTTGAATAAGAAATATTTGGTGTTCTTTTTATAACCAGTTTTTGATTGGTAA
TTGTTTTCTGTATTGTTTAAAACGGATCAAAAATGTAAGTCTATTGGTAGAGATTAAGTAAAGTATTTATTGCTA
CATCATAGTTGATAAATTGATGTTATCGTAAAGCCATATGTTCTGTTCAAGTCTTGTTTGCTTGAAATGATTATT
CCTACAAGTGAAACACTAGACTATTTGGAGTGTATATGGCTTGTGTTTTGGGATTTTTTTTTTTTTTTTGGCTT
TTGTTTTTGTTTGTTTTTTTGTTTCGTTTGGTAGTTCATCTGCCTTTTAACCCATTCACCAAAATTTACCTTGTT
AACAAGCATCACCAATGAACATTTCAGAGCAATCTGCATATTTAACAGACCTAAAATAAATCCTATTAGGCAAGT

FIGURE 166B

CAGTTGAAAATGCTCGTGCTGCTAATGGAATTAGAGTGCGTTCATTTTACAGGCTAGTATTTTAAAAGTAGAAAT
CAAAATCTGGCACCGAAGCATGCTAATTGTTTACTGTACCTTGTGAGGTTTTCACTCATAAATTTAAACCAGTGT
ATTTTTTTAGAACTGGTTTGTGTATATATATAGTGATTATGGATACTAATTCAATGTAATTTATAATTTTCTATG
TCAATACAAAAATACATCACAGCCTTCTCAAACAGCTCAAGCAATATATTGTATATTGCCATATCGTCTGGTGAA
AGGGTTAAATTACTTCACCTCTTGCACTTTTAGATGCAAATCAGTTTTTCATTTCTGTAATAGAAAATTATTCAC
GTATTTTTACATCATTTGTTTTTCCTGACCAGTATTTAAAACCAAAAGGATATTCTGAAAAATGGCCAACAATTT
TTTTAGAAGTAGCATCCCAAGCAGCGTGCCTAAACATTACATTGCATATGGAAATAAAAGAATCAAACGTCTAAT
GCCTTATTATTTCTGATTTCCTTTTTCATTTTAAGTGGTGTGGAGATTCCAGCACTCCCAGGACAGTGGAGTCAG
CAGTAAGCCCTGGGACAGGTGGCAAGGGTGGGTCCCTTGACCTTTGCACGCCTCCTCAGGAACCCCCTTTCCCGG
GTGAGCCCCTCTCTGAAGAGACTGTCCTTGGGCCTCCTCTGGAAGCAGCACCCCCAGAGGACAGGGCTCCTCCTG
CTTGCCTCAGGGCTGCCTGACTTGAATGGCGTTGGACCTCGGGGATTACTGGTAGATAATATGCTCTGGTCTCGC
CTGGTGGTGAGTTTTGCCAGCCATGGCCAGGGTTTGGCTCCACTGGTGGCACACGTGGCCTCCGTGGTATGGACC
TGGTGGCTTCTCCATCCCACTGTGGCCTCTGTGGTATGGACCTGGTGGCTTCTCCATCCTACCCAAGGTAACAGT
GTCTTGCTTCATCCCACTGACTGCTGGGAGAGAGCCTCTGGGACTTTTCTTTGGGGCATCATTTTGTTTTGTCTT
TCGTAGCAGGGAAAGGATATGACAATGGGGAGGACAGTTCTTTTGGAGGTTGGAGGGGCCAAGCCAAGGACAGGA
GCAAGTGTGCCCTCATTTTGTTTCTACTTTTAATTTCTGTGTGTTGGCCATACTGA

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FIGURE 167

GGTACTCTCTGAAGATGGCAGAAGCTCACCAAGCTGTGGCCTTTCAGTTCACGGTCACTCCGGACGGGATTGACC
TGCGGCTGAGCCATGAAGCTCTTAGACAAATCTATCTCTCTGGACTTCATTCCTGGAAAAAGAAGTTCATCAGAT
TCAAGAACGGCATCATCACTGGCGTGTACCCGGCAAGCCCCTCCAGTTGGCTTATCGTGGTGGTGGGCGTGATGA
CAACGATGTACGCCAAGATCGACCCCTCGTTAGGAATAATTGCAAAAATCAATCGGACTCTGGAAACGGCCAACT
GCATGTCCAGCCAGACGAAGAACGTGGTCAGCGGCGTGCTGTTTGGCACCGGCCTGTGGGTGGCCCTCATCGTCA
CCATGCGCTACTCCCTGAAAGTGCTGCTCTCCTACCACGGGTGGATGTTCACTGAGCACGGCAAGATGAGTCGTG
CCACCAAGATCTGGATGGGTATGGTCAAGATCTTTTCAGGCCGAAAACCCATGTTGTACAGCTTCCAGACATCGC
TGCCTCGCCTGCCGGTCCCGGCTGTCAAAGACACTGTGAACAGGTATCTACAGTCGGTGAGGCCTCTTATGAAGG
AAGAAGACTTCAAACGGATGACAGCACTTGCTCAAGATTTTGCTGTCGGTCTTGGACCAAGATTACAGTGGTATT
TGAAGTTAAAATCCTGGTGGGCTACAAATTACGTGAGCGACTGGTGGGAGGAGTACATCTACCTCCGAGGACGAG
GGCCGCTCATGGTGAACAGCAACTATTATGCCATGGATCTGCTGTATATCCTTCCAACTCACATTCAGGCAGCAA
GAGCCGGCAACGCCATCCATGCCATCCTGCTTTACAGGCGCAAACTGGACCGGGAGGAAATCAAACCAATTCGTC
TTTTGGGATCCACGATTCCACTCTGCTCCGCTCAGTGGGAGCGGATGTTTAATACTTCCCGGATCCCAGGAGAGG
AGACAGACACCATCCAGCACATGAGAGACAGCAAGCACATCGTCGTGTACCATCGAGGACGCTACTTCAAGGTCT
GGCTCTACCATGATGGGCGGCTGCTGAAGCCCCGGGAGATGGAGCAGCAGATGCAGAGGATCCTGGACAATACCT
CGGAGCCTCAGCCCGGGGAGGCCAGGCTGGCAGCCCTCACCGCAGGAGACAGAGTTCCCTGGGCCAGGTGTCGTC
AGGCCTATTTTGGACGTGGGAAAAATAAGCAGTCTCTTGATGCTGTGGAGAAAGCAGCGTTCTTCGTGACGTTAG
ATGAAACTGAAGAAGGATACAGAAGTGAAGACCCGGATACGTCAATGGACAGCTACGCCAAATCTCTACTACACG
GCCGATGTTACGACAGGTGGTTTGACAAGTCGTTCACGTTTGTTGTCTTCAAAAACGGGAAGATGGGCCTCAACG
CTGAACACTCCTGGGCAGATGCGCCGATCGTGGCCCACCTTTGGGAGTACGTCATGTCCATTGACAGCCTCCAGC
TGGGCTATGCGGAGGATGGGCACTGCAAAGGCGACATCAATCCGAACATTCCGTACCCCACCAGGCTGCAGTGGG
ACATCCCGGGGGAATGTCAAGAGGTTATAGAGACCTCCCTGAACACCGCAAATCTTCTGGCAAACGACGTGGATT
TCCATTCCTTCCCATTCGTAGCCTTTGGTAAAGGAATCATCAAGAAATGTCGCACGAGCCCAGACGCCTTTGTGC
AGCTGGCCCTCCAGCTGGCGCACTACAAGGACATGGGCAAGTTTTGCCTCACATACGAGGCCTCCATGACCCGGC
TCTTCCGAGAGGGGAGGACGGAGACCGTGCGCTCCTGCACCACTGAGTCATGCGACTTCGTGCGGGCCATGGTGG
ACCCGGCCCAGACGGTGGAACAGAGGCTGAAGTTGTTCAAGTTGGCGTCTGAGAAGCATCAGCATATGTATCGCC
TCGCCATGACCGGCTCTGGGATCGATCGTCACCTCTTCTGCCTTTACGTGGTGTCTAAATATCTCGCTGTGGAGT
CCCCTTTCCTTAAGGAAGTTTTATCTGAGCCTTGGAGATTATCAACAAGCCAGACCCCTCAGCAGCAAGTGGAGC
TGTTTGACTTGGAGAATAACCCAGAGTACGTGTCCAGCGGAGGGGGCTTTGGACCGGTTGCTGATGACGGCTATG
GTGTGTCGTACATCCTTGTGGGAGAGAACCTCATCAATTTCCACATTTCTTCCAAGTTCTCTTGCCCTGAGACGG
ATTCTCATCGCTTTGGAAGGCACCTGAAAGAAGCAATGACTGACATCATCACTTTGTTTGGTCTCAGTTCTAATT
CCAAAAAGTAATTCCACTGGAGCTGCTGGGAAGGAAAACGAG

FIGURE 168

CGGCCGAGGCTGCGGCC**ATG**GCAGCATCTTCCCTGACGGTCACCTTAGGGCGGCTGGCGTCCGCGTGCAGCCACA
GCATCCTGAGACCTTCGGGGCCCGGAGCAGCCTCCCTTTGGTCTGCTTCTCGAAGGTTCAATTCACAGAGCACTT
CATATCTACCAGGATATGTTCCTAAAACATCCCTGAGTTCACCACCTTGGCCAGAAGTTGTTCTGCCAGACCCAG
TTGAGGAGACCAGACACCATGCAGAGGTCGTGAAGAAGGTGAATGAGATGATCGTCACGGGGCAGTATGGCAGGC
TCTTTGCCGTGGTGCACTTTGCCAGCCGCCAGTGGAAGGTGACCTCTGAAGACCTGATCTTAATTGGAAATGAAC
TAGACCTTGCGTGTGGAGAGAGAATTCGACTGGAGAAGGTCCTGCTGGTTGGGGCAGACAACTTCACGCTGCTTG
GCAAGCCACTCCTCGGG**TAA**TGGCTGTGAAGTGCTGGGCTTTGTCTGGGGCTCCAGGGCTGGACATGCAGACAGT
GGTCACAGTGCAATTAGGCCAGAAAGGATCTTGTTCGAGTAGAAGCCACAGTCATTGAAAAGACAGAATCATGGC
CAAGAATCATTATGAGATTCAGGAAAAGGAAAAACTTCAAGAAGAAAAGAATCGTCACGACCCCGCAGACTGTCC
TCCGGATAAACAGCATTGAGATTGCTCCGTGTTTGTTGTGATTACCGAGTTAATACTTACAAAAGGATAAAAATA
AACTCCTGCTTCCCAAGG

FIGURE 169

GGCGCAGAAGCGGGACGTCGGCTTCTAGGGGCCCAGGCCGGCGGCGGCGATGGCCTCGGCAGCTGTGGAGAGCTT
CGTGACCAAGCAACTGGACCTGCTGGAGCTTGAGAGAGACGCGGAGGTGGAGGAGCGCAGGTCCTGGCAGGAGAA
CATCTCTCTGAAAGAGCTCCAGAGCCGAGGCGTGTGTTTGCTGAAGCTGCAGGTATCCAGCCAGCGCACTGGGCT
GTACGGACGGCTGCTGGTCACCTTTGAGCCCAGGCGATACGGGTCCGCGGCAGCTCTTCCCAGTAACAGCTTTAC
TTCTGGTGATATCGTGGGCCTGTACGATGCTGCTAATGAGGGCAGTCAGCTGGCCACTGGGATCTTGACCCGGGT
CACCCAGAAGTCGGTCACGGTGGCCTTTGATGAGTCCCACGATTTCCAGTTGAGCTTGGACCGAGAGAATTCCTA
CAGACTGTTAAAACTTGCCAATGATGTCACTTACAGGCGACTGAAAAAAGCCCTGATTGCTCTAAAGAAGTATCA
TTCTGGCCCAGCCTCCTCACTCATAGAAGTGCTCTTTGGCAGATCTGCTCCCAGTCCTGCCAGTGAAATACACCC
GCTGACATTCTTCAACACCTGCCTGGACACCTCCCAGAAAGAAGCGGTTTCATTTGCGCTGTCTCAGAAAGAACT
TGCCATCATCCATGGACCTCCTGGCACTGGGAAAACCACGACTGTGGTTGAGATCATTCTTCAAGCTGTGAAACA
AGGCTTAAAGGTTCTGTGCTGCGCCCCCTCCAACATCGCCGTGGACAATCTGGTGGAGCGCCTGGCTCTGTGTAA
GCAGCGGATTCTGCGCCTGGGACACCCTGCCCGCCTCCTGGAGTCCATTCAGCAGCACTCCCTGGATGCGGTTTT
AGCGCGGAGCGACAGTGCCCAGATTGTTGCAGATATCAGGAAGGACATCGACCAGGTCTTTGTGAAAAACAAAAA
GACCCAGGATAAGAGAGAGAAAAGTAATTTTCGAAATGAAATTAAGCTGTTAAGAAAAGAACTGAAGGAGAGGGA
AGAAGCAGCTATGCTCGAGAGCCTCACTTCGGCAAACGTGGTCCTTGCAACAAACACAGGTGCGTCTGCCGATGG
CCCCCTGAAGTTGCTGCCCGAGAGCTACTTCGACGTGGTGGTCATTGACGAGTGTGCCCAGGCCCTCGAGGCGAG
CTGCTGGATCCCCCTGCTGAAGGCCAGAAAGTGCATCCTGGCGGGCGATCACAAGCAGCTGCCCCCCACCACAGT
CTCTCACAAGGCTGCGCTGGCAGGACTGTCACTCAGCCTGATGGAACGCCTGGCTGAGGAGTACGGCGCGAGGGT
GGTGCGGACACTGACGGTGCAGTACCGCATGCACCAGGCTATCATGCGCTGGGCCTCAGACACCATGTACCTTGG
GCAGCTCACAGCCCACTCTTCCGTGGCAAGGCACCTCCTGAGGGACCTCCCAGGTGTGGCTGCCACAGAAGAGAC
GGGTGTGCCCCTGCTCTTGGTGGACACCGCCGGCTGCGGGCTGTTTGAGCTGGAGGAGGAGGACGAACAGTCGAA
AGGGAACCCTGGCGAAGTCCGCCTCGTCAGTTTGCACATCCAGGCTCTGGTGGACGCTGGTGTTCCAGCCCGTGA
CATTGCTGTGGTCTCGCCATACAACCTCCAGGTGGACCTGCTCAGACAGAGCCTTGTGCACAGGCACCCTGAGCT
TGAAATCAAGTCTGTCGATGGCTTCCAAGGCCGAGAGAAGGAGGCCGTGATACTGTCCTTCGTCAGATCCAACAG
GAAAGGTGAAGTTGGTTTTCTTGCTGAGGACCGGAGGATCAACGTGGCTGTCACCCGTGCCCGACGCCACGTGGC
GGTCATCTGTGACTCCCGTACTGTCAACAACCATGCATTTTTGAAGACCCTGGTGGAGTATTTCACACAGCATGG
GGAAGTACGCACGGCCTTTGAGTATCTTGACGATATTGTCCCAGAAAACTATTCCCATGAGAACTCCCAGGGTTC
CAGCCACGCTGCCACCAAGCCCCAGGGACCTGCTACGTCCACCAGGACCGGAAGCCAGCGGCAGGAGGGAGGCCA
GGAGGCTGCAGCACCTGCCAGACAGGGCCGGAAGAAGCCGGCTGGGAAGTCTCTGGCCTCTGAAGCTCCATCTCA
GCCCAGCCTCAACGGAGGCAGCCCAGAGGGAGTGGAGAGCCAAGATGGCGTGGACCACTTCCGGGCCATGATAGT
GGAGTTCATGGCCAGCAAGAAGATGCAGTTGGAGTTTCCTCCTTCCCTCAATTCCCACGACAGGCTGCGGGTCCA
CCAAATAGCCGAGGAGCACGGGCTGAGGCACGACAGTTCCGGGGAAGGGAAGAGGAGGTTCATCACTGTGAGCAA
GAGGGCCCCGCGACCCCGAGCAGCCCTGGGACCCCCAGCAGGGACCGGTGGCCCAGCCCCTCTCCAGCCAGTGCC
CCCTACCCCTGCGCAGACAGAGCAGCCTCCCAGGGAGCAGCGTGGCCCAGACCAGCCTGATCTGAGGACGCTGCA
CCTGGAGAGACTGCAGAGGGTCAGGAGCGCGCAGGGGCAGCCCGCCAGCAAGGAGCAGCAGGCCTCAGGGCAGCA
GAAACTTCCAGAAAAGAAAAAGAAAAAAGCCAAAGGACATCCGGCCACAGATCTGCCCACGGAGGAGGACTTTGA
GGCCCTGGTTTCTGCCGCCGTTAAGGCTGATAACACCTGCGGCTTTGCCAAGTGCACAGCCGGCGTCACAACCCT
GGGCCAGTTCTGCCAGCTCTGCAGCCGCCGCTACTGCCTCAGCCACCACCTGCCCGAGATCCATGGCTGCGGTGA
GAGGGCTCGCGCCCATGCCCGGCAGAGAATCAGCCGGGAAGGGGTCCTCTATGCCGGCAGCGGGACCAAGAACGG
ATCCCTGGACCCAGCCAAGAGGGCCCAGCTGCAGAGGAGGCTGGATAAGAAGCTGAGTGAGCTCAGCAACCAGAG
GACCAGCCGGAGGAAGGAGAGGGGGACGTGACCGGCCGCATCCTTGCACGCCCCGCGGAGCTCTCTCCATGGTAG
CCCAGGGCGCTGGCAGACCATGCTCCGCCTCCACCAGGGCCACAGAGGAGCGGAGGGGCCTATGGGGGAGGAGCG
GAGGGCCCTGTTGGGGAAGGTTGGGTTTTTGGACCCCAGGGATAAGCTTTTCCGATGTCACAATGTGGAGGAAAG
CACCTGGGGGACAACAGTGCTCGTGCAGGTGGGGCTTGGGAAATGCACGTCCCTTCCCCTTACTCCCCGCCAAAC
CCACATCCCAGCCTCTGGATCCTGGGGAAGTTCCAGTCC

FIGURE 170

CCTCCTCCTACTCCCCTCCCCCTCCCCCTCCTGCCGGGCCAGGAATTGGGTTTGGGGCGGGTTCTGCTTCCAAAG
CCATCTCTTCCAGCAGGAGAGGGCTCTACTCTGAGCTCCTATTTTCCAAGGCTCCGGGCCGCGCTCGGCGCTGGC
CTGCTGCCCCGGCGGGTCCGCCGGCCGGAGGCGGGAGTCACAGGAAGAGCCCTCCACAAAAGGAGGCCTCGGCGG
ATCAGGACAGCTGCAGGTGGGTGTGCAGACTGGTGAGCTGCCAGCAGGGGCCCAGACGCGCCAGGCCTGGAG**ATG**

GCTGGAAACTGCTCCTGGGAGGCCCATCCCGGCAACAGGAACAAGATGTGCCCTGGCCTGAGCGAGGCCCCGGAA
CTCTACAGCCGGGGCTTCCTGACCATCGAGCAGATCGCGATGCTGCCGCCTCCGGCCGTCATGAACTACATCTTC
CTGCTCCTCTGCCTGTGTGGCCTGGTGGGCAACGGGCTGGTCCTCTGGTTTTTCGGCTTCTCCATCAAGAGGAAC
CCCTTCTCCATCTACTTCCTGCACCTGGCCAGCGCCGATGTGGGCTACCTCTTCAGCAAGGCGGTGTTCTCCATC
CTGAACACGGGGGGCTTCCTGGGCACGTTTGCCGACTACATCCGCAGCGTGTGCCGGGTCCTGGGGCTCTGCATG
TTCCTTACCGGCGTGAGCCTCCTGCCGGCCGTCAGCGCCGAGCGCTGCGCCTCGGTCATCTTCCCCGCCTGGTAC
TGGCGCCGGCGGCCCAAGCGCCTGTCGGCCGTGGTGTGCGCCCTGCTGTGGGTCCTGTCCCTCCTGGTCACCTGC
CTGCACAACTACTTCTGCGTGTTCCTGGGCCGCGGGGCCCCCGGCGCGGCCTGCAGGCACATGGACATCTTCCTG
GGCATCCTCCTGTTCCTGCTCTGCTGCCCGCTCATGGTGCTGCCCTGCCTGGCCCTCATCCTGCACGTGGAGTGC
CGGGCCCGACGGCGCCAGCGCTCTGCCAAGCTCAACCACGTCATCCTGGCCATGGTCTCCGTCTTCCTGGTGTCC
TCCATCTACTTAGGGATCGACTGGTTCCTCTTCTGGGTCTTCCAGATCCCGGCCCCCTTCCCCGAGTACGTCACT
GACCTGTGCATCTGCATCAACAGCAGCGCCAAGCCCATCGTCTACTTCCTGGCCGGGAGGGACAAGTCGCAGCGG
CTGTGGGAGCCGCTCAGGGTGGTCTTCCAGCGGGCCCTGCGGGACGGCGCTGAGCTGGGGGAGGCCGGGGGCAGC
ACGCCCAACACAGTCACCATGGAGATGCAGTGTCCCCCGGGGAACGCCTCC**TGA**GACTCCAGCGCCTGGAGGAGG
CAGGGGCAGGAAGCGGCCTCCAAGACCCTTCGCCTTGGGACAGGAATGGGCACCTGCTTCTGAGTCCATACAGGA
GAAGAAAGATCTGTTTCCTCTCCTCGGGCCTCCTTCTCCCTGGGCTGGGGACTCCAGGGGTGGCTGGGAGACTGG
GCAGCCACCAGCAAACAGACCCTGTGGCCCCTGCCCGGCTCCCCCACCCATTCTGCTCCCCTAGAGACCTCTTGT
ACAGAAGTTGCCCCCAGGTGGTGGGGCCCCTCCTTGCCCTAGGCTGGTTGGTAAAAGAGAGGAGGTCAACACCCA
GCCTAGCCACCTCTGCCTCTTGGGTCAGCCCTCCTTGACTGTGTCCCAGCCAGCACCAGGCCAGCAGCCTCATCC
CTGCCATTCAGGGCTGTTCCAGAGATTCGATCCTCTTAAGGCATTATCAGTGAGCAAATGTGAAGGAAATGGTGT
CTGGAAGAAAGTTCTGGTTCACATGCCTTGTAGCTAAGTCTTTCTGCAAACAACCTCCCTTCCCCCCGTCGAGTC
ATTTGGTGACTTTGATGGGGGGATTTCTGGTTATGTCAAGGCTCTGGAGACAGGAAGGGCCTTTGGCCGCCTTGG
GTAGTTGACCTGCCTTTTCTGACTCCGGGACGAGCCAGTCCTAGGCTGCCTCCGGGAGCACTTGAGGTATCCCGC
AGGCCATGAGGACCCACTGGGCAGCTCCTGGACAGCCTCTTGGCTCCAGCCCCCACCCGAAAGTGGACACTGGCT
CCGCCCTGGCCACCTGGGGACTGGCACTGTGGTGCACAGTGGCCCAATGTGGCCAACGGAAGTTTTATAAAAGAC
AAAATGTATATCAATAAACATTTTATAACTTGC

FIGURE 171

CTTGCATTGATTCATTGAATTCCTGAAGCGAAGCTACACCAGCACATGGGTGGCTTTGAAAGGGGCCTCCCAGAG
CCTGGGGCTCCAGAGGAATTCACTCCCCAAACCTTTGTTGAGCAGCTACTGTATGCCACGCTTTGTGCTAGAGGA
CAGGACTGATGCCACCCCTGCCCCCAGGCACTGACAGGGTAGCAGAGGGAAGACACATGAGCTGCTTTTTAATTT
TTTTTAGAATTAATAGAGACGGGGTCTCACTCTGTCACTATGTTGCCCAGGCTAGTTTTGAACTCCTGGCCTCAA
GCAGTCCTCCTACCTCAGCCTCCCAAAATGCTGGGATTACAGGTGTGAGCCACCGTGCTTAGCCATGAATTGATT
TTAAAACCTTAAATGAGGGGCCAGGTGTTGTCTTTCCGTTTGCCTGAGTGACGCGGGTCTTCTCCAGGACATCCG
GCCACAGATCTGCCCACGGAGGAGGACTTTGAGGCCCTGGTTTCTGCCGCCGTTAAGGCTGATAACACCTGCGGC
TTTGCCAAGTGCACAGCCGGCGTCACAACCCTGGGCCAGTTCTGCCAGCTCTGCAGCCGCCGCTACTGCCTCAGC
CACCACCTGCCCGAGATCCATGGCTGCGGTGAGAGGGCTCGCGCCCATGCCCGGCAGAGAATCAGCCGGGAAGGG
GTCCTCTATGCCGGCAGCGGGACCAAGAACGGATCCCTGGACCCAGCCAAGAGGGCCCAGCTGCAGAGGAGGCTG
GATAAGAAGCTGAGTGAGCTCAGCAACCAGAGGACCAGCCGGAGGAAGGAGAGGGGGACGTGACCGGCCGCATCC
TTGCACGCCCCGCGGAGCTCTCTCCATGGTAGCCCAGGGCGCTGGCAGACCATGCTCCGCCTCCACCAGGGCCAC
AGAGGAGCGGAGGGGCCTATGGGGGAGGAGCGGAGGGCCCTGTTGGGGAAGGTTGGGTTTTTGGACCCCAGGGAT
AAGCTTTTCCGATGTCACAATGTGGAGGAAAGCACCTGGGGGACAACAGTGCTCGTGCCAGGTGGGGCTTGGGAA
ATGCACGTCCCTTCCCCTTACTCCCCGCCAAAACCCACATCCCAGCCTCTGGATCCTGGGGAAGGTTCCAGTCCC
TGGAGAATACCCAGGGCCTCAAACTTGAAGTCACTCCTCCAATGTCTGGGACTTGCCAGCTCAGCCCGTTAGGATT
GAGGGTGCTGAGAGGAAACAGGAAACAAGACTGCGAATGGCGCTCAGGCAGGGAGCAGGGAGTGGCGTTTGGCTT
GCACGTTCCCATGTGGCCAGATGCTGGGGCCACTTTCCTTCTGTCTGCTGGTGACTGCAGTGTTCCCCCTCCTCC
TCACCACGGGGCTCCTGTGAGTCTGGGGGGCACCTCTTTCTGGCCTGTGCACCTCTCTCTGGCTTATAAAGGTGC
CTGGCCTGTGCCAGCCCCTCCTTGTTGCGCCTCACCGTGGGGACCAGGTGAGCCGGCTCTCCCACGTGGTTGTCC
CGGGAAAGCTGCCCCACAGCCTCAGCATCTTCAGCACTTACCGATCCAGAGCCTCCCGGCCTTCTCCGGTGTCCT
GTACCAACTCTTCTATTTAAGAGAACCTCAGATGATGTACCTGAGCCTCAGGGTTTTGTTTCAGAGGGATATAAA
TTATTTAAAAATTAAATGAAAACGTTGCACACTG

FIGURE 172

ATGGTCACACAGCAGCAGTCCAAGTGCCTGGGGCAGTCCGATGCCCACATCCCCCTTGAGGTCCCAGGAGGCCAC
TCCGTCCTCCTAGTACTCTCTTCTCCCAGCATCTCCAGTTCTCCACTGCCCGCTTTTCCTGCTGCCCCACTTGCT
GGTCCCCTGGAGTCCCCCAGACATCATCGCTCCTGCAGTCAGCAAGGATTTGCCCCCTTCCTGACCCTACAGCCC
CCGTTCCAGGCAGTTCCTAGCACCATAAGGACTCTGGCCACCCACACGCTGAGCTCCCACAGGGCAGGTCCAATG
CCCAGCACACAGGGGAAGCTCAGCCCATGTGCCGGCGGAACGTTGAAGACCTACTGTGTTCAGGGCCGTGAGCCA
GGGCACAACCACCCCTTGGGAGCACACTCTGCCTCAACCCTGGAGTGGCTCCGAAATGAGTCTTCAGTCCACAAG
ACTGAGGGTTGCCAATCCTTCTCGGGCTGCCCAGAGCCCCTTCCTGCCCAAGTGGCAGCTGGCCCGCTGGATCTG
CAGGGCAAAAGGAGCAATTGCCTCTCTGTGCGTTTCTATTTCTGCACCTTCCGCTTCCTGGCTGGTGGCCGGCTG
GCTGCTTCAGAAAGTTCTGGAATCCGCAAGGCCAGCTGGTCCTGGCTGGGGCCCAGCAGCACCTCAGCTGGAATG
TGGCGTTTTTCGTTGCAGGGAGAAGTGGTGAACCTGCGGCCCTCAGGCTTGTACCTGCTTCACTGGGGGAGGCTT
CGAAGGTGGCCCAGCTCAGCAGACACTGTGTGGATGTCACAGCCCAGTAGTTCAGAGGACCCTGGACCACCACCT
AGACAGAGAAGGCCACAGCCTTGGCAATGTCCAGACCCTTCCTCCTCTGATCCCACAGGAGGTCCTGGAAGTGGA
CCTACTTTATCTACTGCAAAAGGCCTCAAGAGTGGATTTTTGCTGTCCCTCTTAGAGCCCTCACTGGCATTCTCT
TGGCAGCAGGATACCCCTGACCCCGAAACCCTGGGCAGCTGCTGTCCAACGATCAGTTCCCTGTTTGTTTCCATC
ACGCACTCCACCTTCCACTCCTGTCTGCCTTTGCAGCAGGATCCCCCTGCCGCCCTAACACAGAAGGAGGTGAGA
CGACCGCGGATGCACAAGGTGGGACGACCGCGGCTGCGCAAGGTGGGACAACCGCGGCTGCGCAAGTTGGGACGA
CAGCGGATGTGCAAGGTGAGACGACCGCAGATGTGCAAGGTGGGACGAGGGACGACCACGGATGCACAAGGTGAG
ACGACTGCAGATGCCCAAGGGGCCTGCAGCATTTGTGTACACTTCCTGGTACAATTCAGACAGCCTGGGCCAGGA
CATAGAGAGACCCCAAAGGGAGCCGCTTCAGCAGCAAACAAGCCACAGCCTGTGTGCAGGGAGCTGACCAGACGC
CCTGCAGCCGCCGGGAAGCTGGCAGAGACAGATGGCGTCTGTGCTCAATGGGGCACACAGGGAGCAGAGGCCTCC
GCTGGAGCCCACCCGGCCACCCGCCCGGCAGAGGCTCCTGGGCCGGCCATGCAGGCAGGGAGAGGAGCGCCAGGA
GCTGTAACACGCCAGGTGTGGGTCGCAGCTGAGCAAGTGCTGACAGCTGGTGTTCCCATGCTCCTGGGGGCAGCA
TCTCGCAGCCACTCCAGGGGCCATGTGCACGCTGCCTGCCACCCGGCCCCGCCTCCCCCAGATGGAGCTTTGGCC
GTCACCTGTTGTGCGGTGCGGACAGACACAGCCCGTGGGAGCACACCCCAGGGCCCCCCGGCTCCTCACTCACAT
GGAAGTGAGCACCCACAAACCACTGCGGTGGAGACCCACCGGTTACAAGCAAAGAAACCCACTCTCACTCCTCAA
ATAAAAGGGGAATACTATTACAAGGATGCAAAAGACGAGTTCTCAGAATCCTGTAAACCTTATGTAGCCCCAACT
GCTCAATGCACAGGCAAAATCAACTCAAGAAATCGGCGTCAGAGAGGGGCTGGGAACGAGCCTCCAAGTTCCAGT
TTGGAATCTCTCTTCACCACATGA

FIGURE 173

ATGGAAGATTCCCACAAGAGTACCACGTCAGAGACAGCACCTCAACCTGGTTCAGCAGTTCAGGGAGCTCACATT
TCTCATATTGCTCAACAGGTATCATCTTTATCAGAAAGTGAGGAGTCCCAGGACTCATCCGACAGCATAGGCTCC
TCACAGAAAGCCCACGGGATCCTAGCACGGCGCCCATCTTACAGAAAAATTTTGAAAGACTTATCTTCTGAAGAT
ACACGGGGCAGAAAAGGAGACGGAGAAAATTCTGGAGTTTCTGCTGCTGTCACTTCTATGTCTGTTCCAACTCCC
ATCTATCAGACTAGCAGCGGACAGTACATTGCCATTGCCCCAAATGGAGCCTTACAGTTGGCAAGTCCAGGCACA
GATGGAGTACAGGGACTTCAGACATTAACCATGACAAATTCAGGCAGTACTCAGCAAGGTACAACTATTCTTCAG
TATGCACAGACCTCTGATGGACAGCAGATACTTGTGCCCAGCAATCAGGTGGTCGTACAAACTGCATCAGGAGAT
ATGCAAACATATCAGATCCGAACTACACCTTCAGCTACTTCTCTGCCACAAACTGTGGTGATGACATCTCCTGTG
ACTCTCACCTCTCAGACAACTAAGACAGATGACCCCCAATTGAAAAGAGAAATAAGGTTAATGAAAAACAGAGAA
GCTGCTCGAGAATGTCGCAGAAAGAAGAAAGAATATGTGAAATGCCTGGAAAACCGAGTTGCAGTCCTGGAAAAT
CAAAATAAAACTCTAATAGAAGAGTTAAAAACTTTGAAGGATCTTTATTCCAATAAAAGTGTTTGA

FIGURE 174

GTTTTTTTCCCTTCTGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCT
TGTACCTGCTGAACTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCA
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGCCCCT
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG
TGACCTGTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGT
TTGAGCGCTTTGTGGTAGCTGCCGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGG
CTTTCTATTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAATTACTTCTGGCAACAAGTCCTGGATCCTG
CCTGGCACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA
AGCTGAAGCTGCAGCACATCCAGGCCCCACTGTCCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA
AATAGTGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAAATGCTAA
GTGGGAGAAGAGAAACCTTTTTTTTGGGGGGCGGTTTTTTTGGTTTGTTGTTGGTTTTTTTTTTTTTTTGGCAA
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAGAAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG
GCCGGTCTTGAACTCCTGGGCTCAAGTGATTCTCCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAAACAAATCTGAATCTATTTGTTATTCTTAGCGTCACTGG
TCTGGCTTTCAGAATTAACATACAAGGTTGCCACACCTAGTTCTGCCCAGCTTTATGTCTTTTATTCCAGTATTC
CACCAAAGTTTGTTTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTACTTGACAGTTTAGTATATCC
ATAAAACTATTTGAGGTGGTTAAGGTTCTTGGGTTCATTTTCCTTAATACTTTGCTGAATATTGTAGATTGTAGG
CAATGAAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCTAAACATCAAGC
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTTGGAAGATGATT
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAAATCATCACAAGTGCCTCTGAAAGCGAGTGTTAGGTTGGTTAG
AGGGTTTAATATTTTCTGCAATGGTTTGTAGGAATTTTAATAAATGTAGTATATTTTCTGAGATGATTTTGTAAA
AGTACTATTTTAAATATCAAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

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FIGURE 175A

CGCCCGAGTTGCCGGAGACGCCCGGCCCTCTCTGCCTGCCGGCTGGGCTGCCCACCGCCCTCCCTCCCCGCCCTG
CCGCCCTGGGAGCTCCCCGGCCGTCGCCGCGGGGCCCGGGACTCGCTCGCTCCTCCCTCCTTCCCACCGGGCTAG
GGCGGCGGCGGCAGCGGGGGCGGCAGAGACCATCACGGGAGGAGGCAGCTGCGGCGGGGCCGAATCCTAATGTAC
CTGGCTAGCTGGTGGTGAGTAGGGGCTTTGGGGCCAACTTGGTGGGCTCCCCAAGGAAACCCCTTTGAAACCAAT
GGATGCATTCACGGGCTCGGGTCTCAAGAGGAAGTTTGATGATGTGGATGTGGGCTCATCAGTTTCCAACTCAGA
TGATGAGATCTCCAGCAGTGATAGTGCTGACAGCTGCGACAGCCTCAATCCTCCTACCACTGCCAGCTTCACACC
CACATCCATCCTGAAGCGGCAGAAGCAGCTGCGGAGGAAGAATGTACGCTTTGACCAGGTGACTGTATACTACTT
TGCCCGGCGCCAAGGTTTTACCAGTGTGCCCAGCCAGGGTGGTAGCTCTCTGGGCATGGCCCAGCGCCATAACTC
TGTACGGAGCTATACACTCTGTGAGTTTGCCCAGGAACAGGAGGTGAACCATCGAGAGATTCTGCGTGAGCACCT
GAAGGAAGAGAAACTCCATGCCAAGAAAATGAAGCTGACCAAGAATGGGACAGTGGAGTCGGTGGAGGCTGATGG
CCTGACGCTGGATGATGTGTCAGATGAAGATATTGATGTGGAAAATGTGGAGGTGGATGATTACTTCTTCCTGCA
GCCTCTGCCCACCAAACGGCGACGGGCCCTGCTGAGGGCTTCTGGGGTCCACCGTATTGATGCTGAAGAGAAGCA
AGAACTTCGAGCCATCCGCCTGTCACGGGAAGAATGTGGTTGTGACTGCCGACTGTATTGTGACCCAGAAGCGTG
TGCCTGCAGCCAGGCTGGGATTAAATGCCAGGTGGATCGCATGTCCTTTCCATGTGGCTGCTCCCGGGATGGCTG
TGGGAACATGGCAGGACGCATTGAATTTAATCCAATCCGGGTCCGGACTCATTACCTCCACACCATTATGAAGCT
GGAGCTGGAGAGCAAGCGGCAGGTGAGCCGCCCAGCAGCCCCAGATGAGGAGCCCTCCCCGACTGCCAGTTGCAG
CCTGACAGGAGCACAGGGCTCTGAGACCCAGGACTTCCAGGAGTTCATTGCTGAGAATGAGACAGCAGTGATGCA
CCTGCAGAGTGCAGAGGAACTGGAGCGGCTCAAGGCAGAAGAAGATTCCAGCGGCTCTAGTGCCAGCCTGGACTC
GAGCATCGAGAGCCTGGGTGTGTGCATCCTAGAGGAGCCTCTGGCTGTCCCCGAAGAGCTGTGCCCAGGCCTTAC
AGCCCCCATTCTCATCCAGGCTCAGCTGCCCCCAGGCTCCTCTGTCCTGTGTTTTACCGAGAACTCAGACCACCC
AACTGCCTCAACGGTGAACAGCCCATCCTACTTGAACAGTGGGCCCCTGGTCTATTATCAAGTGGAGCAGAGGCC
AGTCTTGGGAGTGAAAGGAGAGCCTGGTACGGAAGAAGGCTCAGCCTCTTTCCCAAAGGAGAAGGATCTGAATGT
CTTCTCTCTCCCTGTTACCTCACTCGTGGCTTGTAGCTCCACAGACCCAGCTGCCCTCTGTAAATCAGAGGTGGG
GAAAACACCCACCCTAGAAGCTCTATTGCCCGAAGATTGTAACCCTGAGGAGCCTGAAAATGAAGACTTCCACCC
TTCCTGGTCCCCCTCAAGCCTCCCCTTCCGCACGGACAATGAAGAGGGCTGTGGGATGGTGAAGACCTCCCAGCA
GAATGAGGATCGGCCCCCTGAAGATTCTTCCTTAGAACTCCCTCTGGCAGTGTGACAGGCGCTAGAGGTCCTGCC
TCTTACCCATTCTCTATTTATTCCCTTATTTTATCTAACACCATTTCAAAACAAAACTGTAGAAGCAGCTGCTGC
TCCCATGTTATTTTATTGGGGTCTTTGGGGAATGGGTGGGAAAGGATTGTTTGAGTATTTTTTAAAAGGGAAACA
GTACCAAGGAGACCAGCCCTACCTTGATCTGGGGATAGTCTTGGGGCAAAGAAAGCTGCGTAGTGCTGAACATTA
AGCTTTCTGGGCCACTGGAACAAAGAACTAGGATCTCACAGGAAAAGCTGGGTAACTCAAGCAGCTATTCTTTCT
GTAGGGACCAGAACACGAGAATTTGAAGAGCATGGCAAAGCCCTTTCTCTCCCAAGCCCCAGGCAGAGTACAAGC
TCATTTTTCTCGGTGGTTATTCTGATATCCCATTTTGGTGTGTCATAATACTTCAAACTGGAAAGTCACCTGGTC
GAGTCTAGGGAGGAGGGAGTGGAAGGGTCTCTGCTTCTGTACAAAATCTCCAGGATTTACAAAAATGTAACCTGC
CTTCCTTCAATCCCATATTTGGTAAATAAGTTAATATTTGACATGTTTGGTGTTCTCTGACCTGTTCCCCACACT
GGGGATTCCTGGTCTGTAACTTGAATTGTTTCTTCCACATGTTCTTAAGTACTAGAGTTAAACTTGTCTATGTGT
CTTTTTTCTCTCCATCCTTTTTCCTTCGGAGAAAGAGCTGGATTGGCTGGGGATATGGTATAACGAGCCTGAGCC
TTCTGTACGTGTCTGACACTAGCACTGTCAGGCAGCTTTCGGCTGGGGCTCACCCATCCCATAGGAGGCCTATGT
GGAGCATTAACTGTGGCCAAAGGAGGCAGCGGGAACAGGCTGCTTGCTATCTGGAAAGATGACATATTTGTGCCA
TGCTTGTTTTTTCACCCAGGTTTTTCCCTCTTTGTGAGATCTGAGCTTTAGTGGAATGTAGAATGTGGCAATCTT
AAGGTCACCAATCAGTTTTTGTTCTTTTTTCCTGGATCTACCCTCATGGTCGTTTTCAACATAGCGGGTTAGAGT
TCTTATACTGTTCCAGTTCAATTCCAAGAATTGCAAATGTTTATTGGACCCCTCCATCTTGATGATATATAAAAA
TTGGAAGCCAAACCAGTTCTTAAATGCTACATGCAACTCCCAGATTCCAAAGGATTCAAGTTCTAATTATAACCT
TTGAAGCGTATAGAATGGAACTCATTCAGTTTGATTCAGTTCTTACCTCTGTCAGGAGGAATACAGTTCCTGTTC
ATCCTGTGTTCTAAGATCTCCATTGAACAGCACTGATTTCCTTTCATTAGCAAAGTGATCTTTGTCTCTGTTCTA
AAATGGAGGCAGTAGGGAGCAAAACTATTCTTCTCAAGCATCCTTTACACCATACTTTACTTCTGGTATGGTTTA
TTAACCACACACACACACAAAAGTGAAAAACTGTGTTGGGGGGGAGACACTACTCCTACTTATCTTGCTCATAAA
GCCTTTTCTGGTGGGATATTAAGGCCCTGGTGTCTTACAGAAACCATCACGTATGTCGCAGCAGCATTTCACCCC
TGAAGTCTCTAAACTCTGAGCCTGAAAAGATTTGTATTTAATACACATAACATTTTTTAGTTCATTCTGCCTTTC

FIGURE 175B

CTATTTGTTCCAGTTTTTGCTTGGTTTTAGTTTGGAGGGGAACTTAAGTACACAGATCCTTATCTCTCCCCATCC
CCTAGCCTCACAAAACACAGTTGAGAGTCTTTTAAGTACCTGAGCTCTCGAAGCTACCCAGAACTGAACTAGACT
CCCCTACCTTAGACTGGTACCCTCAAACACAGGACTGAAGCTTAATTGGGAATTTGGCTTTATGGAGAAAAGAAT
CTTTTTCAAAGTTTGTGTCGGAAGGGGAGGGTGAGGTTTGCCCACTGTCTCTGCAGGAAGGCTCCGGCTTAATCT
AGGAAGTAGATTCCAGCTGCACGATGAGGAACACATTAGCTTTTGGGATCAAACCAGGAATATGAATCTGTAATT
ATTAAGCTCATTGCCAACCCACAAGATATGTTTCTGAAAACCTGTAGTTTCTTAATTTAAGTCCATCCCCTTCAT
TAACGCTACAGTTGTGACTCACACTGATCCCAAACTTTTAAGTGCTAAATATTAACATTTAGCATTAACTGTCTT
GTCAAGCGAAAGGCCTTCTCTACAACCTAGTCCATCTCACTTCTGGTGCTACCTGAGTTGGACAGAATTCTAGCT
CATGGTTGCTAGGAAAGCTAGGCCTCTGATCATAGAAGCAGATAGCTTCAGTCCCAGTCTAGGCCTAGATAAATG
ACTCTTATTACCACAACCCTTATTATTTTCCAATTTCCTTTCTCACATACTGTACACAGGTAGTATTTTCAATGT
GAATCCAAAGCTTGTCTGGTTCTCTGAAAATAATTTTTTCCCCTTTAGGTTCTTTACATTGTGATAATGCTGTAT
TTAAAGAGAATATTTAAATGTAATATTAAAGAAATATTCAAAAG

FIGURE 176

TGATTGCCTATCTCTTCTTGACCCCAAGACCTTCCTTGGATTTCAGAAGTGTCAAGCCTTGGGATACAATCTCCG
AGACTCCTGCTTTACATTAGGGACTCAAGGCGTGAGGGAGCTTCTAGGACTGATTCCCAGATAGTCTCTTTGATC
TTCCTTGTAGGTCTTCAAAGCTTCACCTTTCTCCAAAGGCAGATGTGAAGAACTTGATGTCTTATGTGGTAACCA
AGACAAAAGCGATTAATGGGAAATACCATCGTTTCTTGGGTCGTCATTTCCCCCGCTTCTATGTCCTGTACACAA
TCTTCATGAAAGAAAGCCTTGAGCCGGGCC**ATG**CTTCTCACATCTTACCTGCCTCCTCCCTTGTTGAGACATCGT
TTGAAGACTCATACAACTGTGATTCACCAACTGGACAAGGCTTTGGCAAAGCTGGGGATTGGCCAGCTGACTGCT
CAGGAAGTAAAATCGGCTTGTTATCTCCGTGGCCTGAATTCTACGCATATTGGTGAAGATAGGTGTCGAACTTGG
CTGGGAGAATGGCTGCAGATTTCCTGCAGCCTGAAAGAAGCTGAGCTGTCTCTCTTGCTGCACAACGTGGTCCTG
CTCTCCACCAACTACCTTGGGACAAGGCGC**TGA**ATGAACCATGGAGCGGATGGCATTGTCCTGCAGTCGTATAGT
ATAGCAGTGCAGGAACAAACAGCACTTGCCAGCAAAGTCTGTGTGTACTGTTAAGTGTGTGGGAGGCAGAGAGAG
GAGCAGGGGCCATGGGCTTCACAGCATGGCACACATGTGGGAACTGCAGACATTCCTCTCACAGCTAGAACTGAA
ACAAACCCTCTTGCTAGGGGTGGTCCGTGTGAGGTGTCATCCTGTCCCCCTCATAATTACTAATAGCTGGAACTG
GCAGCAGCCTCTACTGGGCTTTTACTGTGATGTGTTCAGTTCATGTCCTAGGAAGTCAGCTTTTGCCCCAGGTGG
GAATCCTTATTTGGCTTAGGACTGATCCACTTCCATGTTACTTACATCTGTGGGTTTTTGTTGTTGCTGTTAGAA
AATTTGTGGCTGGTGAAAACAGCACTCCTTTGGCTGGAGCACATGTGTCCGTGCATGTACTTGGGTGTTTCCCTC
CATCCTTTCTGATATGACCAAAAATCAAGTTGTTTTGTTTTTTGTCACCTTCACTGGCATGGGCTAACCACTTCT
TTTTCAAACCCTCTGAACACCTTTTTCTGATGGGTAACTTGCAGGAATATTCTATTGGAAAAGATAACAGGAAGT
ACAAGTGCTTCTTGACCCCTTCCTCAATGTTTCTAGCCTTCACTCTCCATTGTCTTTTCTGGGCTGTATTACAGC
CCTCTGTGGATCTTCAACTCTGCTGCCTCCACTGTGATGCAGCAGTCCAACTGTAACTGACAGTGGCTGCCTTCT
CTGGGCCATGGATCACACCTGTAAGGTACTAATTACTGCCCAGCCTGGGGAGATCAGGAGAGGTCTGCATAGTTA
GTAAGTTGGGTTTAGCTTTTGTGTGTGCATCAGTGACTTAGAGTTCTGTAATAACTTATTGTAAATGCATGAAGC
ACTGTTTTTAAACCCAAGTAAAGACTGCTTGAAACCTGTTGATGG

FIGURE 177

AGATATCCCGATGTCTGTGGGTATAATCGATCCTAGGGCTAATCCAACTCAACTAAATACAGTGGAGTTCCTGTG
GGACCCTGCAAAGAGGACATCTGTGTTTATTCAGGTGCACTGTATTAGCACAGAGTTCACTATGAGGAAACATGG
TGGAGAAAAGGGGGTGCCATTCCGAGTACAAATAGATACCTTCAAGGAGAATGAAAACGGGGAATATACTGAGCA
CTTACACTCGGCCAGCTGCCAGATCAAAGTTTTCAAGCCCAAAGGTGCAGACAGAAAGCAAAAAACGGATAGGGA
AAAAATGGAGAAACGAACACCTCATGAAAAGGAGAAATATCAGCCTTCCTATGAGACAACCATACTCACAGAGTG
TTCTCCATGGCCCGAGATCACGTATGTCAATAACTCCCCATCACCTGGCTTCAACAGTTCCCATAGCAGTTTTTC
TCTTGGGGAAGGAAATGGTTCACCAAACCACCAGCCAGAGCCACCCCCTCCAGTCACAGATAACCTCTTACCAAC
AACCACACCTCAGGAAGCTCAGCAGTGGTTGCATCGAAATCGTTTTTCTACATTCACAAGGCTTTTCACAAACTT
CTCAGGGGCAGATTTATTGAAATTAACTAGAGATGATGTGATCCAAATCTGTGGCCCTGCAGATGGAATCAGACT
TTTTAATGCATTAAAAGGCCGGATGGTGCGTCCAAGGTTAACCATTTATGTTTGTCAGGAATCACTGCAGTTGAG
GGAGCAGCAACAACAGCAGCAGCAACAGCAGCAGAAGCATGAGGATGGAGACTCAAATGGTACTTTCTTCGTTTA
CCATGCTATCTATCTAGAAGAACTAACAGCTGTTGAATTGACAGAAAAAATTGCTCAGCTTTTCAGCATTTCCCC
TTGCCAGATCAGCCAGATTTACAAGCAGGGGCCAACAGGAATTCATGTGCTCATCAGTGATGAGATGATACAGAA
CTTTCAGGAAGAAGCATGTTTTATTCTGGACACAATGAAAGCAGAAACCAATGATAGCTATCATATCATACTGAA
GTAGGAGTGCGGCGTTTCGTGCCCAGTGGCTGCTCCTTCCTTCACCTCTGAAAACGGCCCTCTTGAAGGGGGATA
TGAATGGAGATTTGAAGGTCTGCAAGAACCTGACTCGTCTGACTGTGTGTGGAGGAGTCCAGGCCATGGAGGCAG
AATCCTGGCCCTCTGTGTTGGCCCAAGCTCTTGTGGTACACACAGATTACTGCCCAATATGCAGTTCTGCAGCTG
TTTTAGTTAAATTTCTGGACCTTGTTGTTGTTAAATATCAGTAGAAACTCTACATAATTTAGAGTGTATGTAGGG
CATAATGATGATGGGAATTGTGTGATGTTTAACAGGAAGATCTTAAATTTTGTGATATGGAGCCCTGTAATTTTT
TTCTTATATAAAAATGGGTATCTATATTCATAAGACTAGGTCTTCAATCTCTTTGTACTGGTCTCAAATGTACTG
GTATCTCTGCTTTTTGCCACAGTTTGTCCCTGAAAACTTTATCAGTGAGGAGAAATACAGAATTTTCCTTTTGGT
TCCCCTGTAATACCACAACTAATAGTATTTTCAGCTAACATTTATTGACCAGGCAGTGTGATAAATTTTTTGAAT
GACCATCTTGTTTAACCCCCTAATCACACTATCTGAAGTAGGTGCTATAGTGACCCCCAACCGAAGATGAGGAAA
TGGAGACACACAGTGGCTAAGTAGCTTGCTAGGTGCCAGGAGCTGGCAGGCAGTGATGCTGAAATCCAAACCAGG
CAATCTGGCCCTCCTTATTCACCCTCTCATACCACCAGTGCTACCCATTATAACCTGTGTTCACTTCGCTTATTA
CTGTGGCCCTTCTGGTGACTACAACATAACACTGAGTATGAACTGAGGAATTAACCACTGAAAGAGACAAAGCAC
ACCTAAATAATGATGAACAAATCAAGACCTACAAGAAATGAACACATAGATGCTTTTTAAGTGTCATTAGTTATC
GGAATCAAAGAATTTGAGGTGGTGACAACTGGGGATTATCTGTAACTCCCCAAATTTACTGTTCTTGAATGACAT
TCTCAAACTATTTATTAATGAGTTAGTCTCATCCCTGCTTTCTGTTTCCTCTCTCTGCATCTTCTCTTGGCATAG
GAAGTTATTTTACTCATGCTATGTTTTTTAATAGAAGCTTTACAAAAAAAAGATGCATTCCCTTCCTGTTCACACT
CTTACCATGTTTTTGTTCTTCCTTAAGAATGATTGTGTGTGTGTGTGTGTGTGTGTGTAAGTGTGTAAGTGTAAC
ATCATGGGTTTTCTTTCTTCACTTGTAAAGTTTTATCTAGAAATACTTTTACAGGTTATGTTGAGGTACACAAAG
ATAATGTTCTAAGATTGTGTATTGGATTTGGATTTGTGTGTGTGTGTGTGTGTGTGTGTTTAAAGCATTTGAT
AAGGTTTAAATGTTTTTTATACAGAGATTTTTGTTCATTAAACTCAATCTGCATCATG

FIGURE 178

GGCTCCCGGAATATGGAGCCCTGGGCGCGGGGGCGGCGTGTCAGGTGGTTGCGGAGCTGAATCATATTCTAAGAA
CTCAGCCACTCAGGTATCCACCATGGTGCTGGGTCCTGAACAGAAGATGTCAGATGACAGTGTTTCTGGAGATCA
TGGGGAGTCTGCCAGTCTTGGTAACATCAACCCTGCCTATAGTAATCCCTCTCTTTCACAGTCCCCTGGGGACTC
AGAGGAGTACTTCGCCACTTACTTTAATGAGAAGATCTCCATTCCTGAGGAGGAGTACTCTTGTTTTAGCTTTCG
TAAACTCTGGGCTTTCACCGGACCAGGTTTTCTTATGAGCATTGCCTACCTGGATCCAGGAAATATTGAATCCGA
TTTGCAGTCTGGAGCAGTGGCTGGATTTAAGTTGCTCTGGATCCTTCTGTTGGCCACCCTTGTGGGGCTGCTGCT
CCAGCGGCTTGCAGCTAGACTGGGAGTGGTTACTGGGCTGCATCTTGCTGAAGTATGTCACCGTCAGTATCCCAA
GGTCCCACGAGTCATCCTGTGGCTGATGGTGGAGTTGGCTATCATCGGCTCAGACATGCAAGAAGTCATTGGCTC
AGCCATTGCTATCAATCTTCTGTCTGTAGGAAGAATTCCTCTGTGGGGTGGCGTTCTCATCACCATTGCAGATAC
TTTTGTATTTCTCTTCTTGGACAAATATGGCTTGCGGAAGCTAGAAGCATTTTTTGGCTTTCTCATCACTATTAT
GGCCCTCACATTTGGATATGAGTATGTTACAGTGAAACCCAGCCAGAGCCAGGTACTCAAGGGCATGTTCGTACC
ATCCTGTTCAGGCTGTCGCACTCCACAGATTGAACAGGCTGTGGGCATCGTGGGAGCTGTCATCATGCCACACAA
CATGTACCTGCATTCTGCCTTAGTCAAGTCTAGACAGGTAAACCGGAACAATAAGCAGGAAGTTCGAGAAGCCAA
TAAGTACTTTTTCATTGAATCCTGCATTGCACTCTTTGTTTCCTTCATCATCAATGTCTTTGTTGTCTCAGTCTT
TGCTGAAGCATTTTTTGGGAAAACCAACGAGCAGGTGGTTGAAGTCTGTACAAATACCAGCAGTCCTCATGCTGG
CCTCTTTCCTAAAGATAACTCGACACTGGCTGTGGACATCTACAAAGGGGGTGTTGTGCTGGGATGTTACTTTGG
GCCTGCTGCACTCTACATTTGGGCAGTGGGGATCCTGGCTGCAGGACAGAGCTCCACCATGACAGGAACCTATTC
TGGCCAGTTTGTCATGGAGGGATTCCTGAACCTAAAGTGGTCACGCTTTGCCCGAGTGGTTCTGACTCGCTCTAT
TGCCATCATCCCCACTCTGCTTGTTGCTGTCTTCCAAGATGTAGAGCATCTAACAGGGATGAATGACTTTCTGAA
TGTTCTACAGAGCTTACAGCTTCCCTTTGCTCTCATACCCATCCTCACATTTACGAGCTTGCGGCCAGTAATGAG
TGACTTTGCCAATGGACTAGGCTGGCGGATTGCAGGAGGAATCTTGGTCCTTATCATCTGTTCCATCAATATGTA
CTTTGTAGTGGTTTATGTCCGGGACCTAGGGCATGTGGCATTATATGTGGTGGCTGCTGTGGTCAGCGTGGCTTA
TCTGGGCTTTGTGTTCTACTTGGGTTGGCAATGTTTGATTGCACTGGGCATGTCCTTCCTGGACTGTGGGCATAC
GTGCCATCTGGGATTGACAGCTCAGCCTGAACTCTATCTTCTGAACACCATGGACGCTGACTCACTTGTGTCTAG
ATGACTGACAGCCTGAGAGACTCTATAAGAACATGTTTTTCTAAGCCCTTTTTGTGCCAGGTGTCCCGTTAACGT
CTCTGTTAGTTCAGAGAGACGGGATTTCACCATGTTGCCCAGGCTGGTGTTGAACTCATGAGCTCAAGTAATCTG
CTGGCCTTGGCCTCCCAAAGTGCTGAGATTATAGGCGTGAGCCACTGCATCCAGCTCACTCCTCATTTCTTTCTA
GCCCCAAAGGTGTTGAGTCAGCAAATCCTGCAGCCTTTGTGTGACTTTGAGCATCACTTTCCCCTTTCAGCATTA
AATATATGACCTCTCTGCCTTATTTTAGAACTTACTACATTTCAATAAAACTTTTTAAAAAATCC

FIGURE 179

ATGTTTATGGCTTTCCAAAGCATTGCAGTTAAATCATTCAGCAATAAACCTGCGTTTGCACCATTGCCAGGTATT
AATGTGAGTCATTTGTTTTATTTTAGTGATGTCCTTGCATTGCCCATTTTTAAGCAAGAAGAGTCGAGTTTGCCT
CCTGATAATGAGAATAAAATCCTGCCTTTTCAATATGTGCTTTGTGCTGCTACCTCTCCAGCAGTGAAACTCCAT
GATGAAACCCTAACGTATCTCAATCAAGGACAGTCTTATGAAATTCGAATGCTAGACAATAGGAAACTTGGAGAA
CTTCCAGAAATTAATGGCAAATTGGTGAAGAGTATATTCCGTGTGGTGTTCCATGACAGAAGGCTTCAGTACACT
GAGCATCAGCAGCTAGAGGGCTGGAGGTGGAACCGACCTGGAGACAGAATTCTTGACATAGATATCCCGATGTCT
GTGGGTATAATCGATCCTAGGGCTAATCCAACTCAACTAAATACAGTGGAGTTCCTGTGGGACCCTGCAAAGAGG
ACATCTGTGTTTATTCAGTGGAACAAATTGGCCCCCAGTCCAATCTGCAGAGACAGCTTTGCCTTGGGGAAGTTA
CCTGATGTAGAACAAGGACAGGAGACAGGCACCAAGTCCGGAGTTTGCGTGGCTCTGATGTCTGCTCGTGGATCA
CTGATTGACCAGGCTGAAGCCAGAGGGTCCTTTAGATCCCGAGGGATAATAGAGCAGGCAGCATTTCCACCCACG
TTCTGA

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FIGURE 180

CAGCCCTCTCATCTCCTGGAACCATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTT
TCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGG
GCAGTGGTGGCCTGGGTGGTGC**ATG**TGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCA
AGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCT
TTGGTGGCGCCGGGAGTGGATTTGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCC
TTGCTGGTGGCTTTGGGGGCCCTGGCTTCCCTGTGTGCCCCCCTGGAGGCATCCAAGAGGTCACCGTCAACCAGA
GTCTCCTGACTCCCCTCAACCTGCAAAT**TGA**CCCCGCCATCCAGCGGGTGCGGGCCGAGGAGCGTGAGCAGATCA
AGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTCCTAGAGCAGCAGAACAAGGTTCTGGACA
CCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTCGAGCAGTACA
TCAACAACCTCAGGAGGCAGCTGGACAACAT

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FIGURE 181

CATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCT
CCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCGTCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTGC
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGG
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCCC
TGGCTTCCCTGTGTGCCCCCCTGGAGGCATCCAAGAGGTCACCGTCAACCAGAGTCTCCTGACTCCCCTCAACCT
GCAAATCGATCCCACCATCCAGCGGGTGCGGGCTGAGGAGCGTGAACAGATCAAGACCCTCAACAACAAGTTTGC
CTCCTTCATCGACAAGGTGCGGTTCCTGGAGCAGCAGAACAAGGTTCTGGAAACAAAGTGGACCCTGCTGCAGGA
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCT
GGACAGCATTGTCGGGGAACGGGGCCGCCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAA
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGA
TGCTGCCTACATGAACAAGGTTGAACTGCAAGCCAAGGCAGACACTCTCACAGACGAGATCAACTTCCTGAGAGC
CTTGTATGATGCAGAGCTGTCCCAGATGCAGACCCACATCTCAGACACATCTGTGGTGCTGTCCATGGACAACAA
CCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCCAATATGAGGAGATTGCTCAGAGAAGCCGGGC
TGAGGCTGAGTCCTGGTACCAGACCAAGTACGAGGAGCTGCAGGTCACAGCAGGCAGACATGGGGACGACCTGCG
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA
GCAGTGCGCCAACCTGCAGGCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAA
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA
GCTGATGAATGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGAGGAGTGCAG
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC
CAGTGGTGTCGGCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGG
TGGCTTCAGTTCCAGCAGTGGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAA
GTACACCACCACCTCCTCCTCCAGCAGGAAGAGCTATAAGCACTAAAGTGCGTCTGCTAGCTCTCGGTCCCACAG
TCCTCAGGCCCCTCTCTGGCTGCAGAGCCCTCTCCTCAGGTTGCCTTTCCTCTCCTGGCCTCCAGTCTCCCCTGC
TGTCCCAGGTAGAGCTGGGTATGGATGCTTAGTGCCCTCACTTCTTCTCTCTCTCTCTATACCATCTGAGCACCC
ATTGCTCACCATCAGATCAACCTCTGATTTTACATCATGATGTAATCACCACTGGAGCTTCACTGTTACTAAATT
ATTAATTTCTTGCCTCCAGTGTTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCTCCTTTTCATTG
CAGAAAATTGCCAGGGGCTTATTTCAGAACAACTTCCACTTACTTTCCACTGGCTCTCAAACTCTCTAACTTATA
AGTGTTGTGAACCCCCACCCAGGCAGTATCCATGAAAGCACAAGTGACTAGTCCTATGATGTACAAAGCCTGTAT
CTCTGTGATGATTTCTGTGCTCTTCGCTGTTTGCAATTGCTAAATAAA

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FIGURE 182

TCGACAGCTCTCTCGCCCAGCCCAGTTCTGGAAGGGATAAAAAGGGGGCATCACCGTTCCTGGGTAACAGAGCCA
CCTTCTGCGTCCTGCTGAGCTCTGTTCTCTCCAGCACCTCCCAACCCACTAGTGCCTGGTTCTCTTGCTCCACCA
GGAACAAGCCACC**ATG**TCTCGCCAGTCAAGTGTGTCCTTCCGGAGCGGGGGCAGTCGTAGCTTCAGCACCGCCTC
TGCCATCACCCCGTCTGTCTCCCGCACCAGCTTCACCTCCGTGTCCCGGTCCGGGGGTGGCGGTGGTGGTGGCTT
CGGCAGGGTCAGCCTTGCGGGTGCTTGTGGAGTGGGTGGCTATGGCAGCCGGAGCCTCTACAACCTGGGGGGCTC
CAAGAGGATATCCATCAGCACTAGTGGTGGCAGCTTCAGGAACCGGTTTGGTGCTGGTGCTGGAGGCGGCTATGG
CTTTGGAGGTGGTGCCGGTAGTGGATTTGGTTTCGGCGGTGGAGCTGGTGGTGGCTTTGGGCTCGGTGGCGGAGC
TGGCTTTGGAGGTGGCTTCGGTGGCCCTGGCTTTCCTGTCTGCCCTCCTGGAGGTATCCAAGAGGTCACTGTCAA
CCAGAGTCTCCTGACTCCCCTCAACCTGCAAATCGACCCCAGCATCCAGAGGGTGAGGACCGAGGAGCGCGAGCA
GATCAAGACCCTCAACAATAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTCCTGGAGCAGCAGAACAAGGTTCT
GGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTCGAGCA
GTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTGGGGGAACGGGGCCGCCTGGACTCAGAGCTGAGAAA
CATGCAGGACCTGGTGGAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGAATGA
GTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATGCACT
GATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCCAGATGCAGACGCATGTCTCTGACAC
CTCAGTGGTCCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCCAGTA
TGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCCTGGTATCAGACCAAGTATGAGGAGCTGCAGCAGAC
AGCTGGCCGGCATGGCGATGACCTCCGCAACACCAAGCATGAGATCTCTGAGATGAACCGGATGATCCAGAGGCT
GAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAATCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGG
GGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGAGCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACAT
GGCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACACCAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCG
CAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGAAGGAGTTGGACCAGTCAACATCTCTGTTGTCACAAG
CAGTGTTTCCTCTGGATATGGCAGTGGCAGTGGCTATGGCGGTGGCCTCGGTGGAGGTCTTGGCGGCGGCCTCGG
TGGAGGTCTTGCCGGAGGTAGCAGTGGAAGCTACTACTCCAGCAGCAGTGGGGGTGTCGGCCTAGGTGGTGGGCT
CAGTGTGGGGGGCTCTGGCTTCAGTGCAAGCAGTGGCCGAGGGCTGGGGGTGGGCTTTGGCAGTGGCGGGGGTAG
CAGCTCCAGCGTCAAATTTGTCTCCACCACCTCCTCCTCCCGGAAGAGCTTCAAGAGC**TAA**GAACCTGCTGCAAG
TCACTGCCTTCCAAGTGCAGCAACCCAGCCCATGGAGATTGCCTCTTCTAGGCAGTTGCTCAAGCCATGTTTTAT
CCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCCAGGAGAGCCCCATTCCC
AGCCCCTGGTCTCCCGTGCCGCAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCCACAGCATGGCCCCT
GCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATCAAAACAGAATCCCCACCCCAATCCCAAATTTTGT
TTTGGTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAATAT

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FIGURE 183

GAAACATGCAGGACCTGGTGGAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGA
ATGAGTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATG
CACTGATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCCAGATGCAGACGCATGTCTCTG
ACACCTCAGTGGTCCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCC
AGTATGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCCTGGTATCAGACCAAGTCCGCAACACCAAGCA
TGAGATCTCTGAGATGAACCGGATGATCCAGAGGCTGAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAA
TCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGGGGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGA
GCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACATGGCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACAC
CAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCGCAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGA
AGGAG

FIGURE 184

AGCCTGTGACTTTCCTCCCTGGACAAAGGCATCATGAGTTGTCAGATCTCTTGCAAATCTCGAGGAAGAGGAGGA
GGTGGAGGAGGATTCCGGGGCTTCAGCAGCGGCTCAGCTGTGGTGTCTGGTGGAAGCCGGAGATCAACTTCCAGC
TTCTCCTGCTTGAGCCGCCATGGTGGTGGTGGCGGGGGCTTCGGTGGAGGCGGCTTTGGCAGTCGGAGTCTTGTT
GGCCTTGGAGGGACCAAGAGCATCTCCATTAGTGTGGCTGGAGGAGGTGGTGGCTTTGGCGCCGCTGGTGGATTT
GGTGGCAGAGGAGGTGGTTTTGGAGGCGGCAGCAGCTTTGGAGGTGGCAGCGGCTTCAGTGGTGGTGGTTTCGGT
GGAGGCGGCTTTGGTGGAGGCCGCTTTGGAGGTTTTGGGGGCCCTGGTGGTGTTGGAGGTTTAGGGGGTCCTGGT
GGCTTTGGGCCTGGAGGATACCCTGGTGGCATCCACGAAGTCTCTGTCAACCAGAGCCTCCTGCAGCCTCTCAAC
GTGAAAGTTGACCCAGAGATCCAGAATGTGAAGGCCCAAGAGCGTGAGCAGATCAAAACTCTCAACAACAAATTT
GCCTCCTTCATTGACAAGGTGCGGTTCTTGGAGCAGCAGAACCAGGTGTTACAGACCAAATGGGAGCTGCTACAA
CAAATGAATGTTGGCACCCGCCCCATCAACCTGGAGCCCATCTTCCAGGGGTATATCGACAGCCTCAAGAGATAT
CTGGATGGGCTCACTGCAGAAAGAACATCACAGAATTCAGAGCTGAATAACATGCAGGATCTTGTGGAGGATTAT
AAGAAGAAGTATGAGGATGAAATCAATAAGCGCACAGCTGCTGAGAATGATTTTGTGACGCTTAAAAAGGACGTG
GACAATGCCTACATGATAAAGGTGGAGTTGCAGTCCAAGGTGGACCTGCTGAACCAGGAAATTGAGTTTCTGAAA
GTTCTCTATGATGCGGAGATATCCCAGATACATCAGAGTGTCACTGACACCAACGTCATCCTCTCCATGGACAAC
AGCCGCAACCTGGACTTGGATAGCATCATCGCCGAGGTCAAGGCCCAGTATGAGGAGATCGCCCAGAGGAGCAAG
GAAGAAGCGGAGGCCCTGTACCACAGCAAGTATGAGGAGCTCCAGGTGACTGTCGGGAGACATGGAGACAGCCTG
AAAGAGATCAAGATAGAGATCAGCGAGCTGAACCGCGTGATCCAGAGGCTGCAGGGGGAGATCGCACATGTGAAG
AAGCAGTGTAAGAATGTGCAAGATGCCATCGCAGATGCCGAGCAGCGTGGGGAGCATGCCCTCAAGGATGCCAGG
AACAAGTTGAATGACCTGGAGGAGGCCCTGCAGCAGGCCAAGGAGGACTTGGCGCGGCTGCTGCGTGACTACCAG
GAGCTGATGAACGTGAAGCTGGCCCTAGATGTGGAGATCGCCACCTACCGCAAACTGCTGGAGGGCGAGGAGTGC
AGGATGTCTGGAGACCTCAGCAGCAATGTGACTGTGTCTGTGACAAGCAGCACCATTTCATCAAATGTGGCATCC
AAGGCTGCCTTTGGAGGTTCTGGAGGTAGAGGGTCCAGTTCCGGAGGAGGATACAGCTCTGGAAGCAGCAGTTAT
GGCTCTGGAGGCCGACAGTCTGGCTCCAGAGGCGGTAGTGGAGGAGGAGGTTCTATCTCTGGAGGAGGATATGGC
TCTGGCGGTGGTTCTGGAGGAAGATACGGATCTGGTGGTGGCTCTAAGGGAGGGTCCATCTCTGGAGGAGGATAT
GGCTCTGGAGGTGGAAAACACAGCTCTGGAGGTGGCTCTAGAGGAGGCTCCAGCTCTGGAGGAGGATATGGCTCT
GGAGGTGGGGGTTCTAGCTCTGTAAAGGGTAGCTCAGGTGAAGCTTTTGGTTCCAGCGTGACCTTCTCTTTTAGA
TAAAGATGAGCCCCCACCACCACCGACTCTCCCAACCCAGACTCTCCCACTCCAGAATGTAGAAGCCTGTCTCTG
TACCTCTAACTGGCAGCAAGTTAAATTTTTGTCATTTATCTCTGATGGCACTTTGAGGGAAAAGAATGTCCACAT
ACAGTTTTTGAAAGATCTTCTCTCCAAACCAGTTAGTTAGAGCCAGTGACGCCTCTGTGTTCTGGGGCGGAATCT
GTGCTGTCTAGGTTTGTGCTTCTAGCCATGCCCATTCCCGCCCCCACCATGCCTCTTTGCATTGCCCATTTTCCA
GATGTGTATTCTGTTGAGGACCCAGGCCCATCCAGGGATTTCATCTCTAAGCCTGGCAGTGCTGGGGGGAAATGT
GTTTCTGTGTATATAGCTCCTCTTGTCCACTCTGCTTTCGGAAGTGCTGTGGTCTGGGGGTCTTCATAATAAACC
TCATTTGCA

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FIGURE 185

AGCTCCTTCCCTTACTCTACCTTGCTCCTACTTTTCTCTAAGTCAACATGAGTCGACAGTTTAGTTCCAGGTCTG
GGTACCGAAGTGGAGGGGGCTTCAGCTCTGGCTCTGCTGGGATCATCAACTACCAGCGCAGGACCACCAGCAGCT
CCACACGCCGCAGTGGAGGAGGTGGTGGGAGATTTTCAAGCTGTGGTGGTGGTGGTGGTAGCTTTGGTGCTGGTG
GTGGATTTGGAAGTCGGAGTCTTGTTAACCTTGGTGGCAGTAAAAGCATCTCCATAAGTGTGGCTAGAGGAGGTG
GACGTGGTAGTGGCTTTGGTGGTGGTTATGGTGGTGGTGGCTTTGGTGGTGGTGGCTTTGGTGGTGGTGGCTTTG
GTGGAGGTGGCATTGGGGGTGGTGGCTTTGGTGGTTTTGGCAGTGGTGGTGGTGGTTTTGGTGGAGGTGGCTTTG
GGGGTGGTGGATATGGGGGTGGTTATGGTCCTGTCTGCCCTCCTGGTGGCATACAAGAAGTCACTATCAACCAGA
GCCTTCTTCAGCCCCTCAATGTGGAGATTGACCCTGAGATCCAAAAGGTGAAGTCTCGAGAAAGGGAGCAAATCA
AGTCACTCAACAACCAATTTGCCTCCTTCATTGACAAGGTGAGGTTCCTGGAGCAGCAGAACCAGGTACTGCAAA
CAAAATGGGAGCTGCTGCAGCAGGTAGATACCTCCACTAGAACCCATAATTTAGAGCCCTACTTTGAGTCATTCA
TCAACAATCTCCGAAGGAGAGTGGACCAACTGAAGAGTGATCAATCTCGGTTGGATTCGGAACTGAAGAACATGC
AGGACATGGTGGAGGATTACCGGAACAAGTATGAGGATGAAATCAACAAGCGGACAAATGCAGAGAATGAATTTG
TGACCATCAAGAAGGATGTGGATGGTGCTTATATGACCAAGGTGGACCTTCAGGCCAAACTTGACAACTTGCAGC
AGGAAATTGATTTCCTTACAGCACTCTACCAAGCAGAGTTGTCTCAGATGCAGACTCAAATCAGTGAAACTAATG
TCATCCTCTCTATGGACAACAACCGCAGTCTCGACCTGGACAGCATCATTGCTGAGGTCAAGGCCCAGTACGAGG
ATATAGCCCAGAAGAGCAAAGCTGAGGCCGAGTCCTTGTACCAGAGCAAGTATGAAGAGCTGCAGATCACTGCTG
GCAGACATGGGGATAGTGTGAGAAATTCAAAGATAGAAATTTCTGAGCTGAATCGTGTGATCCAGAGACTTAGAT
CTGAAATCGACAATGTCAAGAAGCAGATCTCCAACTTGCAGCAGTCCATCAGTGATGCAGAGCAGCGTGGCGAGA
ATGCCCTCAAGGATGCCAAGAACAAGCTGAATGACCTGGAGGATGCCCTGCAGCAGGCCAAGGAAGACCTGGCCC
GCCTGCTGCGCGACTACCAGGAGCTGATGAACACAAAGCTGGCCCTGGATCTGGAGATTGCCACCTACAGGACCC
TCCTGGAGGGAGAAGAAAGCAGGATGTCTGGAGAATGTGCCCCGAACGTGAGTGTGTCTGTGAGCACAAGCCACA
CCACCATCAGTGGAGGTGGCAGCCGAGGAGGTGGCGGCGGTGGCTACGGCTCTGGAGGTAGCAGCTATGGCTCCG
GAGGTGGTAGCTATGGTTCTGGAGGTGGCGGCGGCGGCGGCCGTGGCAGCTATGGCTCCGGAGGTAGCAGCTACG
GCTCCGGAGGTGGCAGCTATGGCTCTGGAGGTGGCGGCGGCGGCCATGGCAGCTACGGCTCCGGAAGCAGCAGTG
GGGGCTACAGAGGTGGCTCTGGAGGCGGCGGCGGCGGCAGCTCTGGCGGCCGGGGCTCTGGCGGCGGGAGCTCTG
GAGGCTCCATAGGAGGCCGGGGATCCAGCTCTGGGGGTGTCAAGTCCTCTGGTGGCAGTTCCAGCGTGAAGTTTG
TTTCTACCACTTATTCCGGAGTAACCAGATAAAGAGATGCCCTCTGTTTCATTAGCTCTAGTTCTCCCCCAGCAT
CACTAACAAATATGCTTGGCAAGACCGAGGTCGATTTGTCCCAGCCTTACCGGAGAAAAGAGCTATGGTTAGTTA
CACTAGCTCATCCTATTCCCCCAGCTCTTTCTTTTCTGCTGTTTCCCAATGAAGTTTTCAGATCAGTGGCAATCT
CAGTCCCCTGGCTATGACCCTGCTTTGTTCTTTCCCTGAGAAACAGTTCAGCAGTGACCACCACCCACATGACAT
TTCAAAGCACCTCCTTAAGCCAGCCAGAGTAGGACCAGTTAGACCCAGGGTGTGGACAGCTCCTTAGCATCTTAT
CTCTGTGCTGTTTTGGTTTTGTACATAAGGTGTAAGCAAGTTGTTTTTCTTTTGTGGAGAGGTCTTAAACTCCCC
ATTTCCTTGTTTTGCTGCAATAAACTGCATTTGAAATTCTCCATGTCTCGATCGCCCTTGTTTACGGCACTGTCT
AACCTGGATGGGTGTTTTGTGAGGTAAAAGAA

FIGURE 186

ATGATGCATCACCTTCCAAGGAGGAAAGGAAGCGATCATGGACTCCTGACAGAGAGCAAGATAGAGACCAGAACT
GGAAGTCTTCCCCATCTAAAGATAGGAAGCAGCATTATTCAAGGAACAGACATCGAGGAGGCAGCCATTCTTGCT
TTCGTTCTCGTTCCAAATCTGCAGAAAAAGAACAACGGCACGAAGAACAAGAATGAGATAAGGAGAGGGATTGGA
ATAAGAAGGACCAATATCAAGACAATGATGGGCACAGATGGGACAAGGACCAGAAACGATCCAGTTTCTCCTGGC
CGAGGAAAAGACTTTAAATCTCGGAAGGATGGAGACTCTAAGAAGGATGAAGAGGATGAACATGGTGATAAGAAG
CCTAAGGCCCAGCTGTTATCCCTGGAGGAACTTCTGGCCAAGAAAAAGGCTAAGGAAGAAGCTGAGGTTAAGCCC
AAGTTCCTCTCCAAAGCAGAACAAGAGGCTGAAGCTCTAAAGCAACGGCAGCAGGAGGTGGAAGAGCAGCAGAGG
ATGCTTGTAGAGGAGAGGAAGAAAAGGAAACAGTTCCAAGACTTGGGCAGGAAGATGTTGGAAGATTCTCAGGAG
AGGATGGAGCCAGAGACCAGTGGAAATGAGGATGAGAAAGGGCAGCAGAAGATACGGGAAGAGAAGGATAAGAGC
AAAGAACTGCATGCCATTAAGGAGCATTACCTGGGTGGCATCAAAAAGCGGCACCAAACAAGACATCTCAATGAC
CGAAAGTTTGTTTTTGAGGGGGATGCATCTGAGGATACATCCATTGACTACAACCCCCTGTACAAAGAACGGCAC
CAGAAAAAGTTAGATGAGATGACGGACAGGGACTGGTGGCTCTTCCGTGAGGGCTACAGCATCACCACCAAAGGT
GGCAAGATCCCCAATCCCATCCGATCCTGGAAAGAGTCTTCTCTGCTGCCACACATCTTGGAGGTCATTGATAAG
TGTGGCTACAAGGAATCAACACCTATCCAGCGTCAGGCAATTCCCTTTGGGCTACAGAATCGTGACATCATTGGA
AGAGACCGTCAAGTTTGGGAAGCTGCTAGATATCCAACTGTGGCTGTCATTGGTGGCATCTCCAGAGAAGACTGG
GGCTTCAGGCTGCTCATGGGTTGTGAGATTGTGATCGCCACCCCTGGGCATTTGATTGATGTGCTGGAGAATCGC
TACCTGGTGCTGAGCTGCTGTACCTACGTGGTTCTGGATGAGGCAGATAGGATGATTGACGTGGGCTTCGAGCCA
GATGTCCAGAAGATCCTGGAGCACATGCCTCAATCAGAAGCCAGACACGATGAGTCTGAGGACCCTGAGAAGATG
CTGGCCAACTTTGAGTCAGGAAAACGCAAGCCCCATGAGCGTGTGGAACAGGTCTTCCTCATGTCAGAGTCAGAA
AAGAGGAAAAAGCTGCTGGAAATCTTGAAGCAAGGCTTTGACCCAGCCATCACTATTTTTGTCAACCAGAAGAAG
GGCTGCGACGTGTTGGCCAAATCCCTGGAGAAGATGGGGGTACAATGCCTGTACACTGCACGGTGGAAAAGGCCAG
GAGCAGCGAGAGTTTGCATTGTCCAACCTCAAGCCTGGGGCCAAGGATGTCTTGGTGACTACAGATGTGGCTGGT
CATGGTATTGACATCCAAGATGTGTCTATGGTTGTCAACTATGATATGGCCAAAAATATTGACGATTACATCCAC
CGCATTGGCCGCATGGGACAAGCAGGCAAGAGTGGGGTGGCCATCACCTTCCTCACAAAAGAGGACTCTGCAGTT
TTCTACGAGCTGAAGCAAGCCATCCTGGAAAGCCCAGTGTCTTCCTGTCCCCCCAAACTAGCCAATCACCCAGAT
GCCCAGCATAAGCCAGGCACCATCCTCACCAAGAAGCGCCGGGGAGAGACCATCTTTGCCTGA

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FIGURE 187

GCGAGTGCGCGCTCCTCCTCGCCCGCCGCTAGGTCCATCCCGGCCCAGCCACC**ATG**TCCATCCACTTCAGCTCCC
CGGTATTCACCTCGCGCTCAGCCGCCTTCTCGGGCCGCGGCGCCCAGGTGCGCCTGAGCTCCGCTCGCCCCGGCG
GCCTTGGCAGCAGCAGCCTCTACGGCCTCGGCGCCTCACGGCCGCGCGTGGCCGTGCGCTCTGCCTATGGGGGCC
CGGTGGGCGCCGGCATCCGCGAGGTCACCATTAACCAGAGCCTGCTGGCCCCGCTGCGGCTGGACGCCGACCCCT
CCCTCCAGCGGGTGCGCCAGGAGGAGAGCGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACA
AGGTGCGGTTTCTGGAGCAGCAGAACAAGCTGCTGGAGACCAAGTGGACGCTGCTGCAGGAGCAGAAGTCGGCCA
AGAGCAGCCGCCTCCCAGACATCTTTGAGGCCCAGATTGCTGGCCTTCGGGGTCAGCTTGAGGCACTGCAGGTGG
ATGGGGGCCGCCTGGAGGCGGAGCTGCGGAGCATGCAGGATGTGGTGGAGGACTTCAAGAATAAGTACGAAGATG
AAATTAACCACCGCACAGCTGCTGAGAATGAGTTTGTGGTGCTGAAGAAGGATGTGGATGCTGCCTACATGAGCA
AGGTGGAGCTGGAGGCCAAGGTGGATGCCCTGAATGATGAGATCAACTTCCTCAGGACCCTCAATGAGACGGAGT
TGACAGAGCTGCAGTCCCAGATCTCCGACACATCTGTGGTGCTGTCCATGGACAACAGTCGCTCCCTGGACCTGG
ACGGCATCATCGCTGAGGTCAAGGCGCAGTATGAGGAGATGGCCAAATGCAGCCGGGCTGAGGCTGAAGCCTGGT
ACCAGACCAAGTTTGAGACCCTCCAGGCCCAGGCTGGGAAGCATGGGGACGACCTCCGGAATACCCGGAATGAGA
TTTCAGAGATGAACCGGGCCATCCAGAGGCTGCAGGCTGAGATCGACAACATCAAGAACCAGCGTGCCAAGTTGG
AGGCCGCCATTGCCGAGGCTGAGGAGCGTGGGGAGCTGGCGCTCAAGGATGCTCGTGCCAAGCAGGAGGAGCTGG
AAGCCGCCCTGCAGCGGGGCAAGCAGGATATGGCACGGCAGCTGCGTGAGTACCAGGAACTCATGAGCGTGAAGC
TGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGAGCCGGTTGGCTGGAGATGGAG
TGGGAGCCGTGAATATCTCTGTGATGAATTCCACTGGTGGCAGTAGCAGTGGCGGTGGCATTGGGCTGACCCTCG
GGGGAACCATGGGCAGCAATGCCCTGAGCTTCTCCAGCAGTGCGGGTCCTGGGCTCCTGAAGGCTTATTCCATCC
GGACCGCATCCGCCAGTCGCAGGAGTGCCCGCGAC**TGA**

FIGURE 188

CTCTCTGTCAAGAGCCATTGCCTGAAACTGGAGGAGAACATCAAGACAGCTGAGGAGCAGGGTGAGCTGGCCTTC
CAGGATGCCAAGACCAAGCTGGCCCAGCTGGAGGCCGCCCTGCAGCAGGCCAAGCAGGACATGGCGCGGCAGCTG
CGCAAGTACCAGGAGCTGATGAACGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGGTGGAG
GGCGAGGAGGGCAGGATGGACTCGCCCTCAGCCACTGTGGTCAGCGCTGTGCAGTCCAGGTGCAAAACCGCCCCT
TCCCTCCCCTACCCCTTATGTTCCCTGTAGCTGCCTCCAGATCAGGCCTCTCCAAGGCCCCCTCCCGAAAGAAGA
AGGGCAGCAAAGGCCCCGTGATCAAAATCACCGAAATGTCAGAGAAGTACTTCTCGCAGGAGTCGGAGGTCTCAG
AGTAAGGCGGCTGGACCCCAGGAACCCCAGGGCACTCCACTGCAGCAGGAGGGACTTAAGCTAGACTCAAGAAAG
CAGCTTGGAGCCTCTAGGTTGAGAAGAGAGGCAAAACCTGATATTGAACTGAGAGAGGGGTTCAAAACTGACTGT
GTTTTGTGGGCTGCCAGGGTGGGAGAGGAGCATCACCAGCTCCTCAGAGCCACTCCGCTCCATATCAGTATCTCA
CAGTCCCATCCTTCCAACCTTCTGGCCAGAGGTTTTCCTGATGGGTGAGTCGGAATTAGGGGTCAGTTTTGTCTC
CACCTCCTCGCTCCTCTGAGGCTCCTCCTCCAGCATCAGGCTCTGCCAAGGCCCCTCTGACTCTTGCCCAATCCT
TGACCTTGACTCCTATCTCAAGCCTTGCCTTGTCTCTGCCTCGGAACTGGGACTGGGACTGGCTCATCCACCTAT
GTGCGGGAGCCGAGGAGGACGGCGTGGGCCCTGTCCTGTATCTGGAATTCCTGGGAAGGCTGGCTGCTGAAGACC
CTCTTGGCTTTCCCGTGCTCTTTGGGCTCCCCAGAGACCTGACAGTATTAGGGAGTGAAGGGAGGAGGGGCCCTG
GCTATTTGGGACCTAAGCCTAGGCCCCAGAGATCAGCCCGAACACCCGCATCCCTTCCTCCTCCCATGGGTCCCT
CCCAGTAGGCAGTAGTCAGAACTGGATGGGCTGCCCCCAGCCAGCTCCCAGCAGCTTCTCCGGAAGCTGCTCTTG
CCATAATCAACTCCCTGGGAGTGGAAGCCAGATGGCAGCTTGAGATTGGGCAGGAGCATTCGATCTTCCTTTCAC
CTCCCTGCCATGCTGGGGTCCTACCCAGCCTGGATCTGAGCTCTGTGCCCCCAGCCGGGTTGTTCCCAGCCTGAG
CACCGGGCTTTGGTGCACCAGGCCTTGGAGACCCCTGGTCCCACCCCTGCCGTGAAGCCCCAGGCCCACTTCCCA
AGAATCTCACTTCTCAGGGCCTCTGTTCTCCTCTCCACTGGGCCAAATAGCCTGGCCCTCCCCTCCTTGGCATTC
ATGGGGGAGCCCAGGAACCCCCCACACCT**ATG**GGGTTAGAGCTCCTCCTTTCTTCTCACTCCTTCCCCTTCCTCC
CTCCATGCCCACTCCCCCTGCCTCCAGCAGGCCAGGAAGAAGGCACAGTCCAGGCAAGTCTGGGAGCTTCCAAGC
CCTTGAGGTCCAGCTGTGGGGCCCAAATGACAGCCTTACAAGGGTTCTACCAGAGAGGAAAATTCCACATCCCAC
CAGAAGACAGGGGTGTTGGCAGGCATACTCCTATCTCCTCCTCTTGGCTCTCAATGCTGAGGCTTGCAGAGGCAT
CCCAGCGGCACCAGCCTCCCACTGCACAGCTTCCTTCCCTCCTTCACTCTCCTCTCCCCTCCCTGCCCCTTGCCT
CACCTCCTCTTCTAGACTGCATTAGATTCATTCATCTCATTTGCCAGGACATGTTGGCCAGAGGTCTGGGCCCAT
CCCAGGCCTCAAGGCCCTCCAGGCCTGTGGGGAGCACTGGAGGGTTACTGACTCTCTGGCCATGGGAACTCAGAG
ATTCTCATCCCCAAAGTCCCAAAAGAGGGTGC**TGA**TTGGTGCTTTTCCTCAGGCTCTTCATTGGTTTCCAAGGGA
GCAAATCCTCAGTGGGGATACAAGACATATAAAGTATATATTATTTTTTCATAACTTATGTGGCTTTTAACTTAT
TGCTTCCCTTCCTGTTTCTGCATGATCAGTCTGTATGTACTATCTGGAAAGATAACACATACTCCAGCCACCTCA
CCTGATTGGCTATCTTGGGGCCATGTCCCCTTCTTGCTGCCACAGGATGAATAAAGTGTTGAGATTTGTCTATGG
AGAAAGCTGTGTGTCTGTTTTTATCTCCCCTCTCAGGACCAGTCAGCCACTGGTCAATCAGGCTGATCATGGAAC
ATTAGGAATTCTCCAATTAAGGGAGAAAAAGTCCAGGGACTTAGTTATATCTTCAGACCAGTGCAGCTGGTACAC
ACAAAGTTCTCCTGTCTCACCATCTGATATGGTTTGGATGCTCGTCCCCTCCAAATCTCATGTTGAAATGTAATT
CCCAGTGTTGGAAGTGGAGCCTGGTGGGAAGTATTTGGATCATGAGAGAGGATCCTTCATGAATGGCTCAGCACC
ATCTCCTTGGTGATGAGTGAGTTCTCACTCAATTCACATAGATATGGTTGTTTAAAAGAGTCTGAGACCTCTCCC
CTCTTTCTCGCCATGTGATATGCCTGCTCCCCCTTCACCTTCCGCCTTTACTGTAAGCTTCCTGAGGCCCTCACC
AGAAGCTGAGCAAATGTTGGTGCCATGCCAGTACAGCCTGCAGAATTGTGAGCCAAAATAAATGTCTTTTCTTTA
TAAATTA

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FIGURE 189

TTCCGGTCCCGGCTCAGCCTCCGACCCAGGTGGTCTGGAGCCTGCCGGGAGAGTGGTGGCATCTGAGAGGCTGGT
CGTGGACTGTGGTTGGGGGAGGTGGGAGCTGTTTTAACCGTGTGCCCCCTCTCCTGTGCCGGCGTGGGCATCCCC
CGGGGCAGTGGAACGCGGGCGCTCCTCCAGCTTCCGAGTCCAGCCAGCCTGGGCGCGGGGCGCCGCCCCCGAGAC
ACCCGAGGAGTCCGTTCCTCCCTGGTTACGTGGACTGTGGAGCTGGTCTCTTGTGGCTCAGCGCCGTGCGGAGGT
TGAAGCGTACCTGCGGAGGTCGCACCAGGGCGTGAGGAGGAGGAGGAAGGGCATGAGCCGAGCTTGAGGAATCCG
TGCTCCAAACTCTACACTCAAGGGTGGCCCTTGGGTAGGGTGAAGATCCCCTGTCTTTATCCTAGTTCCACACCT
TGGTGTGGGTTACTGGGTGCAGG**ATG**AACTGTCGCTCGGAGGTGCTGGAGGTGTCGGTGGAGGGGCGGCAGGTGG
AGGAGGCCATGCTGGCTGTGCTGCACACGGTGCTTCTGCACCGCAGCACAGGCAAGTTCCACTACAAGAAGGAGG
GCACCTACTCCATTGGCACCGTGGGCACCCAGGATGTTGACTGTGACTTCATCGACTTCACTTATGTGCGTGTCT
CTTCTGAGGAACTGGATCGTGCCCTGCGCAAGGTTGTTGGGGAGTTCAAGGATGCACTGCGCAACTCTGGTGGCG
ATGGGCTGGGGCAGATGTCCTTGGAGTTCTACCAGAAGAAGAAGTCTCGCTGGCCATTCTCAGACGAGTGCATCC
CATGGGAAGTGTGGACGGTCAAGGTGCATGTGGTAGCCCTGGCCACGGAGCAGGAGCGGCAGATCTGCCGGGAGA
AGGTGGGTGAGAAACTCTGCGAGAAGATCATCAACATCGTGGAGGTGATGAATCGGCATGAGTACTTGCCCAAGA
TGCCCACACAGTCGGAGGTGGATAACGTGTTTGACACAGGCTTGCGGGACGTGCAGCCCTACCTGTACAAGATCT
CCTTCCAGATCACTGATGCCCTGGGCACCTCAGTCACCACCACCATGCGCAGGCTCATCAAAGACACCCTTGCCC
TC**TGA**GCGTCGCTGGATCTCTGGGAGCTCCTTGATGGCTCCCAGACCTTGGCTTTTGGGAATTGCACTTTTGGGC
CTTTGGGCTCTGGAACCTGCTCTGGGTCATTGGTGAGACTTGGAAGGGGCAGCCCCCGCTGGCTTCTTGGTTTTG
TGGTTGCCAGCCTCAGGTCATCCTTTTAATCTTTGCTGACGGTTCAGTCCTGCCTCTACTGTCTCTCCATAGCCC
TGGTGGGGTCCCCCTTCTTTCTCCACTGTACAGAAGAGCCACCACTGGGATGGGGAATAAAGTTGAGAACATG

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FIGURE 190

GAAACTTGGGGGAGTGCACAGAAGAACTTCGGGAGCGCACGCGGGACCAGGGACCAGGCTGAGACTCGGGGCGCC
AGTCCGGGCAGGGGCAGCGGGAGCCGGCCGGAGATGCCCTGTATCCAAGCCCAATATGGGACACCAGCACCGAGT
CCGGGACCCCGTGACCACCTGGCAAGCGACCCCCTGACCCCTGAGTTCATCAAGCCCACCATGGACCTGGCCAGC
CCCGAGGCAGCCCCCGCTGCCCCCACTGCCCTGCCCAGCTTCAGCACCTTCATGGACGGCTACACAGGAGAGTTT
GACACCTTCCTCTACCAGCTGCCAGGAACAGTCCAGCCATGCTCCTCAGCCTCCTCCTCGGCCTCCTCCACATCC
TCGTCCTCAGCCACCTCCCCTGCCTCTGCCTCCTTCAAGTTCGAGGACTTCCAGGTGTACGGCTGCTACCCCGGC
CCCCTGAGCGGCCCAGTGGATGAGGCCCTGTCCTCCAGTGGCTCTGACTACTATGGCAGCCCCTGCTCGGCCCCG
TCGCCCTCCACGCCCAGCTTCCAGCCGCCCCAGCTCTCTCCCTGGGATGGCTCCTTCGGCCACTTCTCGCCCAGC
CAGACTTACGAAGGCCTGCGGGCATGGACAGAGCAGCTGCCCAAAGCCTCTGGGCCCCCACAGCCTCCAGCCTTC
TTTTCCTTCAGTCCTCCCACCGGCCCCAGCCCCAGCCTGGCCCAGAGCCCCCTGAAGTTGTTCCCCTCACAGGCC
ACCCACCAGCTGGGGGAGGGAGAGAGCTATTCCATGCCTACGGCCTTCCCAGGTTTGGCACCCACTTCTCCACAC
CTTGAGGGCTCGGGGATACTGGATACACCCGTGACCTCAACCAAGGCCCGGAGCGGGGCCCCAGGTGGAAGTGAA
GGCCGCTGTGCTGTGTGTGGGGACAACGCTTCATGCCAGCATTATGGTGTCCGCACATGTGAGGGCTGCAAGGGC
TTCTTCAAGCGCACAGTGCAGAAAAACGCCAAGTACATCTGCCTGGCTAACAAGGACTGCCCTGTGGACAAGAGG
CGGCGAAACCGCTGCCAGTTCTGCCGCTTCCAGAAGTGCCTGGCGGTGGGCATGGTGAAGGAAGTTGTCCGAACA
GACAGCCTGAAGGGGCGGCGGGGCCGGCTACCTTCAAAACCCAAGCAGCCCCCAGATGCCTCCCCTGCCAATCTC
CTCACTTCCCTGGTCCGTGCACACCTGGACTCAGGGCCCAGCACTGCCAAACTGGACTACTCCAAGTTCCAGGAG
CTGGTGCTGCCCCACTTTGGGAAGGAAGATGCTGGGGATGTACAGCAGTTCTACGACCTGCTCTCCGGTTCTCTG
GAGGTCATCCGCAAGTGGGCGGAGAAGATCCCTGGCTTTGCTGAGCTGTCACCGGCTGACCAGGACCTGTTGCTG
GAGTCGGCCTTCCTGGAGCTCTTCATCCTCCGCCTGGCGTACAGGTCTAAGCCAGGCGAGGGCAAGCTCATCTTC
TGCTCAGGCCTGGTGCTACACCGGCTGCAGTGTGCCCGTGGCTTCGGGGACTGGATTGACAGTATCCTGGCCTTC
TCAAGGTCCCTGCACAGCTTGCTTGTCGATGTCCCTGCCTTCGCCTGCCTCTCTGCCCTTGTCCTCATCACCGAC
CGGCATGGGCTGCAGGAGCCGCGGCGGGTGGAGGAGCTGCAGAACCGCATCGCCAGCTGCCTGAAGGAGCACGTG
GCAGCTGTGGCGGGCGAGCCCCAGCCAGCCAGCTGCCTGTCACGTCTGTTGGGCAAACTGCCCGAGCTGCGGACC
CTGTGCACCCAGGGCCTGCAGCGCATCTTCTACCTCAAGCTGGAGGACTTGGTGCCCCCTCCACCCATCATTGAC
AAGATCTTCATGGACACGCTGCCCTTCTGACCCCTGCCTGGGAACACGTGTGCACATGCGCACTCTCATATGCCA
CCCCATGTGCCTTTAGTCCACGGACCCCCAGAGCACCCCCAAGCCTGGGCTTGAGCTGCAGAATGACTCCACCTT
CTCACCTGCTCCAGGAGGTTTGCAGGGAGCTCAAGCCCTTGGGGAGGGGGATGCCTTCATGGGGGTGACCCCACG
ATTTGTCTTATCCCCCCCAGCCTGGCCCCGGCCTTTATGTTTTTTGTAAGATAAACCGTTTTTAACACATAGCGC
CGTGCTGTAAATAAGCCCAGTGCTGCTGTAAATACAGGAAGAAAGAGCTTGAGGTGGGAGCGGGGCTGGGAGGAA
GGGATGGGCCCCGCCTTCCTGGGCAGCCTTTCCAGCCTCCTGCTGGCTCTCTCTTCCTACCCTCCTTCCACATGT
ACATAAACTGTCACTCTAGGAAGAAGACAAATGACAGATTCTGACATTTATATTTGTGTATTTTCCTGGATTTAT
AGTATGTGACTTTTCTGATTAATATATTTAATATATTGAATAAAAAATAGACATGTAGTTG.

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FIGURE 191A

CCGAAGCCGGCGACCGCCCCACCTCCTCCCTCCCTCCCGCCCGCTTCCTCTGCCCACAGCGCCGGCCAGAGCGAG
CTAGACAAGGGCACGCGGGGCCTCGCCTAGACCCGAGAAGACTGCGGGCGCGCGCAAGCGGCGGCGTGGAAGCTG
TGAGCGCCCCCATCCCGGAGGTCTCCGCCGGCTCCCGGGTGAATCAGCTCCCGGCCGACTTTAGGATTCTTCTGG
ATTTTAAATTTTTTCTTTTTAAAAAAACTTGGACGGATAAAAGATGTGCCATGGCAGGATAGCACCAAAGAGCAC
CTCAGTGTTTGCCGTGGCCTCCGTGGGACATGGAGTGTTCCTTCCGCTAGTGATCCTTTGCACCCTGCTTGGAGA
CGGACTTGCTTCCGTGTGCCCCCTACCACCGGAGCCAGAGAATGGTGGCTACATCTGCCACCCCCGGCCCTGCAG
AGACCCCCTGACAGCAGGCAGTGTCATCGAATACCTGTGTGCTGAAGGCTACATGTTGAAGGGCGATTACAAATA
CCTGACGTGTAAGAATGGCGAGTGGAAACCAGCCATGGAGATTAGCTGCCGTCTCAACGAGGATAAAGACACCCA
CACATCACTTGGGGTCCCCACGCTGTCTATAGTGGCTTCTACTGCCAGCTCCGTGGCGCTCATTCTCCTCCTCGT
GGTGCTGTTTGTGCTGCTGCAGCCAAAGCTGAAGTCTTTCCATCATAGCAGGCGTGACCAGGGGGTATCTGGGGA
CCAGGTCTCCATCATGGTGGATGGAGTCCAGGTTGCACTACCATCATACGAGGAGGCTGTATATGGCAGTTCTGG
TCACTGTGTGCCACCTGCTGACCCCAGAGTACAGATTGTGCTGTCAGAAGGGTCTGGGCCCAGTGGGAGGAGCGT
GCCAAGGGAGCAACAGCTGCCGGACCAAGGGGCCTGCTCCTCTGCAGGTGGAGAAGATGAGGCCCCAGGCCAGTC
TGGACTATGTGAAGCCTGGGGCTCTCGGGCCTCAGAGACTGTGATGGTGCATCAGGCAACCACCTCTTCCTGGGT
GGCCGGCTCAGGGAACCGCCAACTGGCACACAAAGAAACTGCAGATTCAGAGAACAGTGACATACAAAGCCTTTT
ATCCCTCACGTCAGAGGAGTACACAGATGATATTCCACTGTTGAAAGAAGCATGAGGGCAGCGGCCAGCCTTTCC
TCTCTGCGAGGTTCTCTCAGCCCTTCCTCCCTCTCCCTGTGGGATTGAGCACCCTGTACTCTCCAGCCACCTTAC
CTGGATACCTGAGCTGCCACCTGTGTATCTGTGTATCTCTGAGGGCCCTATAGGCCCACCTTGCTGGAAACTCAA
GGAAGATTCTCGCCATCTGCCTGTTGGACAGCTGGAGGAGCTGGCTCTTTGCCTGGCCCCGCCTTCCCATCTGTC
AGAGACATATTTGAATGTGCTGGATCAAACCCTCCCTTTTCCTAAGCCTCTGGGTCCCCTCCAGCCAGCTCTTTG
GCGGCAGCCCCCACCAGCTCCTGTGGGCCTGAGTGCTGCTGTGTTTACTTGTGCCTTTCCCCCACCCTGTCCAGT
TTCCCTGTCATGCAGACTTGTTGCTGTCCACAAGCCTTAGTGGCTGCACTGCTGCCCCCTGCCACACAGGGGGCC
GGGCCTGGGTCTGTCCTGTTTCCTTTGAGGGTTGCCCCTACTGCCCTTTGCAGGAACAGATCCAGGTGTGAGAGC
TCTTGAGTCAAGAGTGGCAGAAGTGGCTCTAATTGGGGTGAGAGTGTAGTCCCTGGGCTTGCCCTGGGTTGACCC
TGGTGGCATATTTCCTTGGCTGAGGATGGAAGATTTGGAGAATCATGTCCATGCTGGCCCAGGACCCAGCCATCT
GGCCCAAAGGCACAAGCTCCTGGCCCTGTTGAGTTGAGAGTTTCCAAGAAGCATCCAGAAGATCCCAAGGGAGAG
AAGGAAAATGGCTGATAATGATTGTCTTCCTAATATGCAAGTTCTCACTTCCTACTTCCAGCATCGGCCTTCCTG
GCCTTGTCTTTTTTTTGTTTCCCTGGAGTATAATGGGAAGTTGCATGCTGCCTCCTGGGTTTTATCCCAGATAGC
TCTGGCTTTCTTGCTGCCCACAGGGGCCTGGGGCAGGAAGGAGACTTGCTGAGATGCCATGGAGTGCCCATCTGG
TCACTGGCAGTCTGGGCAGGTTGCCCCTTTCTGGGTTTGTGGTGACGGAGGGGAGGCCGAGAGGCACAGACCAAG
TCCCCGGGTGGCTGCAGGCAGCTCCAGCCCGGTCCTGAGGATCCTCCTCACCATGGTCACGTGCCTTAGTAACTG
TGCCCAGGAAGTGGCCTGCTGCTTGCTGTGCTGCTGCTTTTCCTACTTCTGCCCTTCCCTGCCACCCCTCGCATG
TCACAGCTGACAAGCAATTCCTTGTCTTCCCTGGCCCCCTGGGGGAAGGGCTGAGAAACAGTCCGTGTGCACCCC
AACCTTAATGGCCTGAGGTGGGCAGAGGGGTGTGGAGCAGCCTGGAGTACAGGGCCCTGGGGGAGGAGCCCACTG
ATGAGGGGCGCTCTCCCATAGCCATGTGTTGAATGCTAACTAGGCTGGGGTGGACGAACTCTGCCAACTGCTGTC
ATCTTAGAAGATAGATGCAGCAGTAAGGAATGTTTGTTTTGCTTTTTTCTGAAATTTTCTGAAGCACTGTGGCTG
GGAAACTTCGAAGCGGACCCTGTGCTGCATGTCTGCTCCTCCCCTGAGCCTGTCTGCTTGGGGGTGGTAAAAATA
AAAATCCCAGTTTATTTTCAGTACCTTACCTAACAGGGTTGGCTCCAGGCGTGGGTGGCCTAGAAGATGAGGGGA
GTGGTCTTCTCCCAGCCTTTTACCCTCTTGCCTCCTGCCTCCGCGCTTACACACGCACTTTACCACCCGGTCATT
CCCTGGCCTCTTGCTGCCACTTGTAGTCTTCCTTCCTTCCTCTCAGGGTAAGGGCAGTGCCTGCTGTGCCTGTTG
GCCACTCCCACACTTCCCCTCCCCCAGGAGCCCTCATCTGCTGTGCTGAGTCCAGGAAAGCATAGTTAGGTAGGG
AGCTGGTTGGAGAAGGTGCTAGAACTAGAAGGCAGATGAGACTAGCATGGGCCCACCTGGAGGGCTGTCCCTAAT
GGCCCCAGTCGCCTTACCTCACCCACAGCAGTGCCCTTGTCTTCCTCCAAAACAGAAAGCAGTGACAAAAGGGGG
AGGGGTGGTAATCTGAAGTCTCACTGCTGAGCCTTCAGCTTTTATTTTTCACTGTTTCAAAACCCGCATTCTATT
CTAGAATGGTTTTTAAAATGGAAGATCTTACCTTTTTCTATCTTGTTACTCTGGGGTTTTGTCCCCCTAAGAGAT
TGCACTTTTTGTTTGGGGTTTATTCAGCTGCATAGATGACCAGCTTGATCCCTGGTGAAATGAAAAGCCTTCCTT
CTCCTGAAGCCTCTTTCCGCCCTGCCCTCCACTAACAACACTGAGGAGCACAAGCCCAGGCTTGCCCACCTGGTA
GGAAAGGAAGAAATTAGAACAATGGGAGCCTTGGCTCCCCTCTCGTCTCCTCCCCTCCTTCTTGTCACTGGCTTT

FIGURE 191B

GATGAGGCCCACTTCCCAGAGGCTCCTGGGCCTGTGAGTGCAGGAGCTCATTCTCCCCTCACTGCTGAAGTCTGT
GACAGCTTCTTCCTCCAGTTATGTCTTTCTTCCAAAGCAATTTCTTAACCATCAGCCATGTGCTGCTATTTCTAG
GGCTTCTGGGCTTTGTCCCTTACTGAGAGATTAGGGACTCCACAGCTGCCTTGAGGTAGGGCCTGGCTGAGAGAC
AAGGGTAGCAGCAGGTGGCAGGCTGTTAAAAGACAGGCTGCCTGAGGAGCCTGGAGCAGGTGGAAACAGGTGGAA
GAAACCGGCCACAGCCCTGCTTTACCGGGCTCACCTCTAGGGCATTCCAGCAAGAGGCTGATGCAGGAGAATGGC
CAGCACCAAAGGACATTTAAAAGAGTTTTTGGGTTTTTTTGTTTGTTTGTTGTTGGTGTTTGTTTTTTTTTTTTT
TTTTTTGGCACACTTGAGCTGACTCAGTGCAGGTTTAATATCCTGGTGACTTGCAGTCACATTCTAATGACTTTC
AAGGGCCAGAATATGGTGAAAATCACTTAAAATATCCGTCCCTTCCATGCCTTAGTTTAGCAGGTAGGCTCTATC
TTTTGCCATTTCTGTATTTTATGTGCTGTGTTCCCGTTTCACTGGGTATGAACTGTGAAATCGACTGAATCCTGG
CCACTTTATGAGTTTGTTTGGTTTTATAAGGCATTTCAATGTACATTCTATAAATACAAGCACTCCATTTGCAAA
CAGATCTTAAGCTAATATTTTCTTTCCCATTCATCTTGCCCTCCCCCTCCTCCCGCCAGCTTTAAAGTTCAGTGG
AGAAGCCAGATGGCAATTCAGACAAAGGTATACTCTTCCTGCTTCATGGGTGGTGGCACGGGAATAGATAGCCCT
TAGCCCTTTCCCTCCCAGTCCCAGCTGAGCCCTCAGACCACTTGCTTCCCACATAACAATGTCGCCTCCATTTCC
GAGGAACATCCTTGCGTAGAGAATGAAATATGCTGCAATCATTTCTGCATCCTTACTCCTCACCCCCAAAGAAAA
AAAAAAGGCCTAGCAGGGAAGCAGCATGCAGGCTTCACAGCTTAATGCCAAGGACAGCGAGTGAGGCTGGGAGCT
TCTCTTGGGCCTGCTGGGTCTGTCAGCTCTCGGAATAGGGACAGTCCTTACTGGTGCCCCAAGGTGGGACTTGGA
GAATATTTTGCTTGGCATATGTTTGGTCTGAATGGTGTAGTTGCTGGTTCCCTAGAGAGGAAAAGGTGGCAGGCC
CAGCTTTGCTGGGAAATGGCTCTTAATTTCCAGTTGAAACCCTAGTAGAATTGTGAATGAAAACCTCAAGGTTGA
GCCCCTCTGCCAAGCAGCAGAGCTAGTAGAAGGGGATGCAGGGGCAAAGCACTCAGTTGCCAAGCAAGGAGGAGA
GATGTACGTGGGCTGTGTGGCAGTCCCCACACCCTGCCCTGGCTTCTTCAGGTTATCGCACCACTATGGAATCCT
TTGCAGAATGGTACTCATATAATGGTTTAAAACAACACATTCATAATTGACTCTGTGCAGGATGTCACTCAATCA
GTTTGGGTTTGCTTTATTTTATTTTATATATATATTTTTTGGTATCCTGTACATTGCAGTGGGTGTGAAGATAGT
ATTTTAATATTTGTACAAAGTTTAATTTAATTTTAATTGTTCTATGTATATAACTGCATTTCTAAATAATTAAAA
AAAAGTTCTTATG

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FIGURE 192

GCGTGGAGGTCGACGACTCCGTCGCAGACTACGGACCTGTCTGGGTCTCAGCCGCCAAAGACCCCGTCCGGTAGG
TGAGTGGCTCACTTTGAGGGCAAGCCTTCTCGGATCGAGGCTTCTTCATGGCCGCTCAGATCGTGAGCGGCCGGG
GCTGCTCTCTTTGCGGAGGATGGCGTCTAATGAGCGCAGTTGATTCGAGGAAGTACTAGCCGGACATCATGAGTG
GCTGTCGGGTATTCATCGGGAGACTAAATCCAGCGGCCAGGGAGAAGGACGTGGAAAGATTCTTCAAGGGATATG
GACGGATAAGAGATATTGATCTGAAAAGAGGCTTTGGTTTTGTGGAATTTGAGGATCCAAGGGATGCAGATGATG
CTGTGTATGAGCTTGATGGAAAAGAACTCTGTAGTGAAAGGGTTACTATTGAACATGCTAGGGCTCGGTCACGAG
GTGGAAGAGGTAGAGGACGATACTCTGACCGTTTTAGTAGTCGCAGACCTCGAAATGATAGACGGTATGTGAAGG
GTGGATGGCTGCATTGAACAATTATTGTAGGGGTAGCATTTAAGATTCAGGAGTCATTAGCAGTGATGATTTTGG
GTCCTGCCGTATAATCTGTTCTTCTATTCCCACGTTAGCCAGTTGTTCTTGATGAATCTATATGAGTCATAGAAC
ACAAATCTATTGACGGAAGTCATTAGAATGGCTTGTGATATCTGATGGCTTGAACTTGCCCACAGTTGAACACAA
GTGCTGTCATTGCATTTCTTCCATTGTGAATACGAATTTTCTTCCTCAGAAATGCTCCACCTGTAAGAACAGAAA
ATCGTCTTATAGTTGAGAATTTATCCTCAAGAGTCAGCTGGCAGGATCTCAAAGATTTCATGAGACAAGCTGGGG
AAGTAACGTTTGCGGATGCACACCGACCTAAATTAAATGAAGGGGTGGTTGAGTTTGCCTCTTATGGTGACTTAA
AGAATGCTATTGAAAAACTTTCTGGAAAGGAAATAAATGGGAGAAAAATAAAATTAATTGAAGGCAGCAAAAGGC
ACAGGTCAAGAAGCAGGTCTCGATCCCGGACCAGAAGTTCCTCTAGGTCTCGTAGCCGATCCCGTTCCCGTAGTC
GCAAATCTTACAGCCGGTCAAGAAGCAGGAGCAGGAGCCGGAGCCGGAGCAAGTCCCGTTCTGTTAGTAGGTCTC
CCGTGCCTGAGAAGAGCCAGAAACGTGGTTCTTCAAGTAGATCTAAGTCTCCAGCATCTGTGGATCGCCAGAGGT
CCCGGTCCCGATCAAGGTCCAGATCAGTTGACAGTGGCAATTAAACTGTAAATAACTTGCCCTGGGGGCCTTTTT
TTAAAAAACAAAAACCACAAAAATTCCCAAACCATACTTGCTAAAAATTCTGGTAAGTATGTGCTTTTCTGTGGG
GGTGGGATTTGGAAGGGGGGTTGGGTTGGGCTGGATATCTTTGTAGATGTGGACCACCAAGGGGTTGTTGAAAAC
TAATTGTATTAAATGTCTTTTGATAAGCCTTCTGCTCACATTTTTGTGAATGTCTGAAGTATATAGTTTGTGTAT
ATTGACAGAGCTCTTTTATAACTAAAGCAAATTTAATTTTTTTGTACTAGAAAAAAATTTGAACATTTTAGTTCT
TGGTTATAAAAATGTTAATTCAGAATTAGTTTAATGCCTTAATTAAACTAATTAATAGCTTTGGACACTTAAAAG
AGCTCTAAATTTGCTTGTACATAAAGGCTTAATTTGTTTTCCTTGTTAGGGTCAAGGGTGTCCTCCACTCTTTAA
CAGCTGCTGGACAGACACATTAGAGCAGCTGTTTGTTATTGATAATAAAATATTATAAAACTA

FIGURE 193

CCTGCTGCCGCCTGGGCCCCGCCGAGCGGAGCTAGCGCCGCGCGCAGAGCACACGCTCGCGCTCCAGCTCCCCTC
CTGCGCGGTTCATGACTGTGTCCCCTGACCGCAGCCTCTGCGAGCCCCCGCCGCAGGACCACGGCCCGCTCCCCG
CCGCCGCGAGGGCCCCGAGCGAAGGAAGGAAGGGAGGCGCGCTGTGCGCCCCGCGGAGCCCGCGAACCCCGCTCG
CTGCCGGCTGCCCAGCCTGGCTGGCACC**ATG**CTGCCCGCGCGCTGCGCCCGCCTGCTCACGCCCCACTTGCTGCT
GGTGTTGGTGCAGCTGTCCCCTGCTCGCGGCCACCGCACCACAGGCCCCAGGTTTCTAATAAGTGACCGTGACCC
ACAGTGCAACCTCCACTGCTCCAGGACTCAACCCAAACCCATCTGTGCCTCTGATGGCAGGTCCTACGAGTCCAT
GTGTGAGTACCAGCGAGCCAAGTGCCGAGACCCGACCCTGGGCGTGGTGCATCGAGGTAGATGCAAAGATGCTGG
CCAGAGCAAGTGTCGCCTGGAGCGGGCTCAAGCCCTGGAGCAAGCCAAGAAGCCTCAGGAAGCTGTGTTTGTCCC
AGAGTGTGGCGAGGATGGCTCCTTTACCCAGGTGCAGTGCCATACTTACACTGGGTACTGCTGGTGTGTCACCCC
GGATGGGAAGCCCATCAGTGGCTCTTCTGTGCAGAATAAAACTCCTGTATGTTCAGGTTCAGTCACCGACAAGCC
CTTGAGCCAGGGTAACTCAGGAAGGAAAGATGACGGGTCTAAGCCGACACCCACGATGGAGACCCAGCCGGTGTT
CGATGGAGATGAAATCACAGCCCCAACTCTATGGATTAAACACTTGGTGATCAAGGACTCCAAACTGAACAACAC
CAACATAAGAAATTCAGAGAAAGTCTATTCGTGTGACCAGGAGAGGCAGAGTGCCCTGGAAGAGGCCCAGCAGAA
TCCCCGTGAGGGTATTGTCATCCCTGAATGTGCCCCTGGGGGACTCTATAAGCCAGTGCAATGCCACCAGTCCAC
TGGCTACTGCTGGTGTGTGCTGGTGGACACAGGGCGCCCGCTGCCTGGGACCTCCACACGCTACGTGATGCCCAG
TTGTGAGAGCGACGCCAGGGCCAAGACTACAGAGGCGGATGACCCCTTCAAGGACAGGGAGCTACCAGGCTGTCC
AGAAGGGAAGAAAATGGAGTTTATCACCAGCCTACTGGATGCTCTCACCACTGACATGGTTCAGGCCATTAACTC
AGCAGCGCCCACTGGAGGTGGGAGGTTCTCAGAGCCAGACCCCAGCCACACCCTGGAGGAGCGGGTAGTGCACTG
GTATTTCAGCCAGCTGGACAGCAATAGCAGCAACGACATTAACAAGCGGGAGATGAAGCCCTTCAAGCGCTACGT
GAAGAAGAAAGCCAAGCCCAAGAAATGTGCCCGGCGTTTCACCGACTACTGTGACCTGAACAAAGACAAGGTCAT
TTCACTGCCTGAGCTGAAGGGCTGCCTGGGTGTTAGCAAAGAAGGACGCCTCGTC**TAA**GGAGCAGAAAACCCAAG
GGCAGGTGGAGAGTCCAGGGAGGCAGGATGGATCACCAGACACCTAACCTTCAGCGTTGCCCATGGCCCTGCCAC
ATCCCGTGTAACATAAGTGGTGCCCACCATGTTTGCACTTTTAATAACTCTTACTTGCGTGTTTTGTTTTTGGTT
TCATTTTAAAACACCAATATCTAATACCACAGTGGGAAAAGGAAAGGGAAGAAAGACTTTATTCTCTCTCTTATT
GTAAGTTTTTGGATCTGCTACTGACAACTTTTAGAGGGTTTTGGGGGGGTGGGGGAGGGTGTTGTTGGGGCTGAG
AAGAAAGAGATTTATATGCTGTATATAAATATATATGTAAATTGTATAGTTCTTTTGTACAGGCATTGGCATTGC
TGTTTGTTTATTTCTCTCCCTCTGCCTGCTGTGGGTGGTGGGCACTCTGGACACATAGTCCAGCTTTCTAAAATC
CAGGACTCTATCCTGGGCCTACTAAACTTCTGTTTGGAGACTGACCCTTGTGTATAAAGACGGGAGTCCTGCAAT
TGTACTGCGGACTCCACGAGTTCTTTTCTGGTGGGAGGACTATATTGCCCCATGCCATTAGTTGTCAAAATTGAT
AAGTCACTTGGCTCTCGGCCTTGTCCAGGGAGGTTGGGCTAAGGAGAGATGGAAACTGCCCTGGGAGAGGAAGGG
AGTCCAGATCCCATGAATAGCCCACACAGGTACCGGCTCTCAGAGGGTCCGTGCATTCCTGCTCTCCGGACCCCC
AAAGGGCCCAGCATTGGTGGGTGCACCAGTATCTTAGTGACCCTCGGAGCAAATTATCCACAAAGGATTTGCATT
ACGTCACTCGAAACGTTTTCATCCATGCTTAGCATCTACTCTGTATAACGCATGAGAGGGGAGGCAAAGAAGAAA
AAGACACACAGAAGGGCCTTTAAAAAAGTAGATATTTAATATCTAAGCAGGGGAGGGGACAGGACAGAAAGCCTG
CACTGAGGGGTGCGGTGCCAACAGGGAAACTCTTCACCTCCCTGCAAACCTACCAGTGAGGCTCCCAGAGACGCA
GCTGTCTCAGTGCCAGGGGCAGATTGGGTGTGACCTCTCCA

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FIGURE 194

AAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCAGCTGTCGTGAAGAAGCAGGAGGCT
AAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCAAAAGA
GACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGGCAGAGAGCCATCCTCTATAAGCGGCTG
AAAGTGCCTCCTGCGATTAACCAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCC
CACAAGTACAGGCCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGTTGGCCCGGGCCGAGAAGAAAGCTGCTGGC
AAAGGGGACGTCCCGAAGAAGAGACCACCTGTCCTTCGAGCAGGAGTTAACACTGTCACCACCTTGGTGGAGAAC
AAGAAAGCTCAGCTGGTGGTGATTTCACACGACATGGATCCCATCGAGGGGGAAGGCAAGACTGGGACGTCTAGT
CCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCAGAAGACAAAGGCGCTTTGGCTAAGCTGGT
GGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCACTGGGGTGGCAATGTCCTGGGTCC
TAAGTCTGTGGCTCGTATCGCCAAGCGCAAAAAGGCAAAGGCTAAAGAACTTGCCACTAAACTGGGTTAAATGTA
CACTGTTGAGTTTTCTGTACATAAAAATAATTAAAATAATACAAATTTTCCTT

FIGURE 195

TGTTTCCGCTGCATCCAGACTTCCTCAGGCGGTGGCTGGAGGCTGCGCATCTGGGGCTTTAAACATACAAAGGGA
TTGCCAGGACCTGCGGCGGCGGCGGCGGCGGCGGGGGCTGGGGCGCGGGGGCCGGACCATGAGCCGCTGAGCCGG
GCAAACCCCAGGCCACCGAGCCAGCGGACCCTCGGAGCGCAGCCCTGCGCCGCGGAGCAGGCTCCAACCAGGCGG
CGAGGCGGCCACACGCACCGAGCCAGCGACCCCCGGGCGACGCGCGGGGCCAGGGAGCGCTACG**ATG**GAGGCGCT
AATGGCCCGGGGCGCGCTCACGGGTCCCCTGAGGGCGCTCTGTCTCCTGGGCTGCCTGCTGAGCCACGCCGCCGC
CGCGCCGTCGCCCATCATCAAGTTCCCCGGCGATGTCGCCCCCAAAACGGACAAAGAGTTGGCAGTGCAATACCT
GAACACCTTCTATGGCTGCCCCAAGGAGAGCTGCAACCTGTTTGTGCTGAAGGACACACTAAAGAAGATGCAGAA
GTTCTTTGGACTGCCCCAGACAGGTGATCTTGACCAGAATACCATCGAGACCATGCGGAAGCCACGCTGCGGCAA
CCCAGATGTGGCCAACTACAACTTCTTCCCTCGCAAGCCCAAGTGGGACAAGAACCAGATCACATACAGGATCAT
TGGCTACACACCTGATCTGGACCCAGAGACAGTGGATGATGCCTTTGCTCGTGCCTTCCAAGTCTGGAGCGATGT
GACCCCACTGCGGTTTTCTCGAATCCATGATGGAGAGGCAGACATCATGATCAACTTTGGCCGCTGGGAGCATGG
CGATGGATACCCCTTTGACGGTAAGGACGGACTCCTGGCTCATGCCTTCGCCCCAGGCACTGGTGTTGGGGGAGA
CTCCCATTTTGATGACGATGAGCTATGGACCTTGGGAGAAGGCCAAGTGGTCCGTGTGAAGTATGGGAACGCCGA
TGGGGAGTACTGCAAGTTCCCCTTCTTGTTCAATGGCAAGGAGTACAACAGCTGCACTGATACCGGCCGCAGCGA
TGGCTTCCTCTGGTGCTCCACCACCTACAACTTTGAGAAGGATGGCAAGTACGGCTTCTGTCCCCATGAAGCCCT
GTTCACCATGGGCGGCAACGCTGAAGGACAGCCCTGCAAGTTTCCATTCCGCTTCCAGGGCACATCCTATGACAG
CTGCACCACTGAGGGCCGCACGGATGGCTACCGCTGGTGCGGCACCACTGAGGACTACGACCGCGACAAGAAGTA
TGGCTTCTGCCCTGAGACCGCCATGTCCACTGTTGGTGGGAACTCAGAAGGTGCCCCCTGTGTCTTCCCCTTCAC
TTTCCTGGGCAACAAATATGAGAGCTGCACCAGCGCCGGCCGCAGTGACGGAAAGATGTGGTGTGCGACCACAGC
CAACTACGATGATGACCGCAAGTGGGGCTTCTGCCCTGACCAAGGGTACAGCCTGTTCCTCGTGGCAGCCCACGA
GTTTGGCCACGCCATGGGGCTGGAGCACTCCCAAGACCCTGGGGCCCTGATGGCACCCATTTACACCTACACCAA
GAACTTCCGTCTGTCCCAGGATGACATCAAGGGCATTCAGGAGCTCTATGGGGCCTCTCCTGACATTGACCTTGG
CACCGGCCCCACCCCCACGCTGGGCCCTGTCACTCCTGAGATCTGCAAACAGGACATTGTATTTGATGGCATCGC
TCAGATCCGTGGTGAGATCTTCTTCTTCAAGGACCGGTTCATTTGGCGGACTGTGACGCCACGTGACAAGCCCAT
GGGGCCCCTGCTGGTGGCCACATTCTGGCCTGAGCTCCCGGAAAAGATTGATGCGGTATACGAGGCCCCACAGGA
GGAGAAGGCTGTGTTCTTTGCAGGGAATGAATACTGGATCTACTCAGCCAGCACCCTGGAGCGAGGGTACCCCAA
GCCACTGACCAGCCTGGGACTGCCCCCTGATGTCCAGCGAGTGGATGCCGCCTTTAACTGGAGCAAAAACAAGAA
GACATACATCTTTGCTGGAGACAAATTCTGGAGATACAATGAGGTGAAGAAGAAAATGGATCCTGGCTTCCCCAA
GCTCATCGCAGATGCCTGGAATGCCATCCCCGATAACCTGGATGCCGTCGTGGACCTGCAGGGCGGCGGTCACAG
CTACTTCTTCAAGGGTGCCTATTACCTGAAGCTGGAGAACCAAAGTCTGAAGAGCGTGAAGTTTGGAAGCATCAA
ATCCGACTGGCTAGGCTGC**TGA**GCTGGCCCTGGCTCCCACAGGCCCTTCCTCTCCACTGCCTTCGATACACCGGG
CCTGGAGAACTAGAGAAGGACCCGGAGGGGCCTGGCAGCCGTGCCTTCAGCTCTACAGCTAATCAGCATTCTCAC
TCCTACCTGGTAATTTAAGATTCCAGAGAGTGGCTCCTCCCGGTGCCCAAGAATAGATGCTGACTGTACTCCTCC
CAGGCGCCCCTTCCCCCTCCAATCCCACCAACCCTCAGAGCCACCCCTAAAGAGATACTTTGATATTTTCAACGC
AGCCCTGCTTTGGGCTGCCCTGGTGCTGCCACACTTCAGGCTCTTCTCCTTTCACAACCTTCTGTGGCTCACAGA
ACCCTTGGAGCCAATGGAGACTGTCTCAAGAGGGCACTGGTGGCCCGACAGCCTGGCACAGGGCAGTGGGACAGG
GCATGGCCAGGTGGCCACTCCAGACCCCTGGCTTTTCACTGCTGGCTGCCTTAGAACCTTTCTTACATTAGCAGT
TTGCTTTGTATGCACTTTGTTTTTTTCTTTGGGTCTTGTTTTTTTTTTCCACTTAGAAATTGCATTTCCTGACAG
AAGGACTCAGGTTGTCTGAAGTCACTGCACAGTGCATCTCAGCCCACATAGTGATGGTTCCCCTGTTCACTCTAC
TTAGCATGTCCCTACCGAGTCTCTTCTCCACTGGATGGAGGAAAACCAAGCCGTGGCTTCCCGCTCAGCCCTCCC
TGCCCCTCCCTTCAACCATTCCCCATGGGAAATGTCAACAAGTATGAATAAAGACACCTACTGAGTGGC

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FIGURE 196

CACATGTAAACTACTTGAACTCCATTTCATCTTTTTTCATACCATCTCTAAGATTGCTGCCGCATTTGCTTGTTA
AACTGAAAGC**ATG**TTTCTTGCAAAGGCTCTATTGGAAGGAGCAGATCGAGGTCTTGGAGAAGCTCTTGGAGGCCT
CTTTGGAGGAGGTGGTCAGAGAAGAGAAGGAGGAGGAAGAAATATTGGAGGGATAGTTGGAGGAATTGTGAATTT
TATCAGTGAGGCTGCAGCAGCTCAGTATACTCCAGAACCGCCTCCCACTCAGCAGCATTTCACCAGTGTGGAGGC
CTCAGAAAGTGAGGAAGTTAGGCGATTTCGGCAACAATTTACACAGCTGGCTGGACCAGACATGGAGGTGGGTGC
CACTGATCTGATGAATATTCTCAACAAAGTCCTTTCTAAGCACAAAGATCTTAAGACTGACGGTTTTAGTCTTGA
CACCTGCCGGAGCATTGTGTCTGTCATGGACAGTGACACGACTGGTAAGCTGGGCTTTGAAGAATTTAAGTATCT
GTGGAACAACATCAAGAAATGGCAGTGTGTTTATAAGCAGTATGACAGGGACCATTCTGGGTCTCTGGGAAGTTC
TCAGCTGCGGGGAGCTCTGCAGGCCGCAGGCTTCCAGCTAAATGAACAACTTTACCAAATGATTGTCCGCCGGTA
TGCTAATGAAGATGGAGATATGGATTTTAACAATTTCATCAGCTGCTTGGTCCGCCTGGATGCCATGTTTCGTGC
CTTCAAGTCTCTGGATAGAGATAGAGATGGCCTGATTCAAGTGTCTATCAAAGAATGGCTGCAGTTGACCATGTA
TTCC**TGA**AGTGGGAACTGAGAAGTCAAGATCCTCCCTGGAGGACAGGACTGAAAACCTTGCCAAGCTGTACACAG
TTGCTGATACCCTGTGCAACAGCTCTCATTTCCTGGCAAGCTCTTTCACAACCCTACATATTTCTGATCATGTGC
TGCCTTTTACTGCTGAATTAAAACAGATATTTCA

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FIGURE 197

CCTCGGCGTGCCCCCAGGACCGGTAAAGTTCCTCTCGCCAGCCGCATCCATGCTTCTGGCGCGGATGAACCCGCA
GGTGCAGCCCGAGAACAACGGGGCGGACACGGGTCCAGAGCAGCCCCTTCGGGCGCGCAAAACTGCGGAGCTGCT
GGTGGTGAAGGAGCGCAACGGCGTCCAGTGCCTGCTGGCGCCCCGCGACGGCGACGCGCAGCCCCGGGAGACCTG
GGGCAAGAAGATCGACTTCCTGCTGTCCGTAGTCGGCTTCGCAGTGGACCTGGCCAACGTGTGGCGCTTCCCCTA
CCTCTGCTACAAGAACGGCGGCGGTGCCTTCTTGATCCCGTACACACTGTTCCTTATCATCGCGGGGATGCCCCT
GTTCTACATGGAGCTGGCTCTGGGACAGTACAACCGGGAGGGGGCTGCCACCGTTTGGAAAATCTGCCCATTCTT
CAAAGGCGTTGGCTATGCTGTCATCCTGATCGCCCTGTACGTTGGCTTCTACTACAACGTCATCATCGCCTGGTC
ACTCTACTACCTCTTCTCCTCCTTCACCCTCAACCTGCCCTGGACCGACTGTGGCCACACCTGGAACAGCCCCAA
CTGTACCGACCCCAAGCTCCTCAATGGCTCCGTGCTTGGCAACCACACCAAGTACTCCAAGTACAAGTTCACGCC
GGCAGCCGAGTTTTATGAGCGTGGTGTCCTGCACCTTCACGAGAGCAGCGGGATTCATGACATCGGCCTGCCCCA
GTGGCAGCTCTTGCTCTGTCTGATGGTCGTCGTCATCGTCTTGTATTTTAGCCTCTGGAAAGGGGTGAAGACATC
AGGAAAGGTGGTGTGGATCACAGCCACGCTGCCTTACTTCGTGCTGTTCGTGCTCCTGGTCCATGGCGTCACGCT
GCCCGGAGCCTCCAATGGCATCAATGCCTACCTGCACATCGACTTCTACCGCTTGAAAGAGGCCACGGTATGGAT
TGATGCCGCAACTCAGATATTTTTTTCCTTGGGGGCTGGATTTGGAGTATTGATTGCATTTGCCAGTTACAACAA
ATTTGACAACAACTGTTACAGGGATGCCCTGCTGACCAGCAGCATCAACTGTATCACCAGCTTCGTCTCTGGGTT
CGCCATCTTCTCCATCCTTGGTTACATGGCCCATGAACACAAGGTCAACATTGAGGATGTGGCCACAGAAGGAGC
TGGCCTAGTGTTCATCCTGTATCCAGAGGCCATTTCTACCCTGTCTGGATCTACATTCTGGGCTGTTGTGTTTTT
CGTCATGCTCCTGGCGCTGGGCCTTGACAGCTCAATGGGAGGCATGGAGGCTGTCATCACGGGCCTGGCAGATGA
CTTCCAGGTCCTGAAGCGACACCGGAAACTCTTCACATTTGGCGTCACCTTCAGCACTTTCCTTCTCGCCCTGTT
CTGCATAACCAAGGGTGGAATTTACGTCTTGACCCTCCTGGACACCTTTGCTGCGGGCACCTCCATCCTTTTTGC
TGTCCTCATGGAAGCCATCGGAGTTTCCTGGTTTTATGGAGTGGACAGGTTCAGCAACGACATCCAGCAGATGAT
GGGGTTCAGGCCGGGTCTATACTGGAGACTGTGCTGGAAGTTCGTCAGTCCTGCCTTCCTCCTGTTCGTGGTTGT
GGTCAGCATCATCAACTTCAAGCCACTCACCTACGACGACTACATCTTCCCGCCCTGGGCCAACTGGGTGGGGTG
GGGCATCGCCCTGTCCTCCATGGTCCTGGTGCCCATCTACGTCATCTATAAGTTCCTCAGCACGCAGGGCTCTCT
TTGGGAGAGACTGGCCTATGGCATCACGCCAGAGAACGAGCACCACCTGGTGGCTCAGAGGGACATCAGACAGTT
CCAGTTGCAACACTGGCTGGCCATCTGAGCCTGCCTGGAGGAGAAGGAGGAACCCCCATGCCAATGTCCAGGTCA
CAGGCATCCGCTGCGCTCCCACCTCGGACACCATCTTGGGATTCCTCCCCTGGAAGTTGTCCTTTCTGATCCTCT
CTTCTTTTCCCATTTACAAATGATTTCGTGACTGTAGTTTTTGTTCACCTTCTGTGCATCTGGCCTGGGGGCTGT
TAGCTCAGAGGAGAGGAGCAAACAGGAAAATGACTT

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FIGURE 198

CTTTTTTCTTTTTTCCGGCGTTCAAGATGTCGAAGCGAGGACGTGGTGGGTCCTCTGGTGCGAAATTCCGGATTT
CCTTGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGTATATCATCTCCG
TGAAGGGGATCAAGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTGGGTGACATGGTGATGGCCACAGTCAAGA
AAGGCAAACCAGAGCTCAGAAAAAAGGTACATCCAGCAGTGGTCATTCGACAACGAAAGTCATACCGTAGAAAAG
ATGGCGTGTTTCTTTATTTTGAAGATAATGCAGGAGTCATAGTGAACAATAAAGGCGAGATGAAAGGTTCTGCCA
TTACAGGACCAGTAGCAAAGGAGTGTGCAGACTTGTGGCCCCGGATTGCATCCAATGCTGGCAGCATTGCATGATT
TCTCCAGTATATTTGTAAAAAATAAAAAAAAACTAAACCCATT

FIGURE 199

CCGGAAGTGACCTCTAGAGCGGTGGTGAAACTGGCAGTTGACGGCTCCTGGGACTAGATCCCGCGAGGTAGCCCC
CGAACTATTTCTCTACGTTTTCTCTTGATCCTCCCGAAATCTTCCAGATCCGCGTAGTGAGGAATCGTCTCCACC
GTCATGGGGGGCGGAGACCTGAATCTGAAGAAGAGCTGGCACCCGCAGACCCTCAGGAATGTGGAGAAAGTGTGG
AAGGCCGAGCAGAAGCATGAGGCTGAGCGGAAGAAGATTGAGGAGCTTCAGCGGGAGCTGCGAGAAGAGAGAGCC
CGGGAAGAGATGCAGCGCTATGCGGAGGATGTTGGGGCCGTCAAGAAAAAAGAAGAAAAGTTGGACTGGATGTAC
CAGGGTCCTGGTGGGATGGTGAACCGTGACGAGTACCTGCTGGGGCGCCCCATTGACAAATATGTTTTTGAGAAG
ATGGAGGAGAAGGAGGCAGGCTGCTCTTCTGAAACAGGACTTCTCCCAGGCTCTATCTTTGCCCCATCAGGTGCC
AATTCCCTTCTTGACATGGCCAGCAAGATCCGGGAGGACCCACTCTTCATCATCAGGAAGAAGGAGGAGGAGAAA
AAACGAGAGGTATTAAATAATCCAGTGAAAATGAAGAAAATCAAAGAATTGTTGCAAATGAGTCTGGAAAAAAAG
GAGAAGAAGAAAAAGAAGGAGAAGAAAAAGAAGCACAAGAAACATAAGCACAGAAGCTCGAGTAGTGATCGTTCC
AGCAGCGAGGATGAGCACAGTGCAGGGAGATCACAGAAGAAGATGGCAAATTCCTCCCCTGTTTTGTCCAAAGTC
CCTGGATATGGCTTACAGGTCCGGAACTCTGACCGTAACCAGGGTCTTCAGGGTCCTCTGACAGCAGAGCAAAAG
AGAGGGCATGGGATGAAGAACCATTCCAGATCCAGAAGCTCCTCCCACTCACCCCCAAGACATGCCAGCAAGAAG
AGCACCAGGGAAGCAGGGTCCCGGGACAGGAGGTCTCGATCCCTGGGCAGAAGGTCACGGTCCCCAAGACCCAGC
AAACTGCACAACTCTAAGGTGAACAGGAGAGAGACAGGCCAAACTAGGAGCCCATCACCTAAAAAAGAGGTCTAC
CAAAGGCGACATGCTCCCGGATACACCAGAAAACTCTCTGCAGAGGAATTAGAGCGAAAACGGCAAGAGATGATG
GAAAACGCCAAATGGAGGGAGGAGGAGAGACTGAACATCCTCAAGAGGCATGCTAAGGATGAGGAACGGGAGCAG
AGGCTAGAGAAGCTGGACTCCCGGGATGGGAAGTTCATCCACCGCATGAAGCTGGAGAGTGCATCTACTTCCTCC
CTGGAGGATCGGGTGAAGCGGAATATCTACTCTTTACAGAGAACTTCGGTAGCTCTGGAGAAGAACTTTATGAAA
AGATGAAAACTGTCCCCTCTCTTATTGGTTTTCCTGCATTTTCCAGGGAAGCTGCTGACCCCTTAATTCTCTTTA
TAAGAGTTCAAATGACTTCTTTCACAGATGTCAAACCACCAGTGTTCAAAGTGACCCTGCTTCATTGAGTCCTGA
AACAGCTCACTTCCTTTGAGAGCTAGTGTGACTTGCTTTGTGGGACACTCAGTAACTTTGGGTTTTGACTCTTTA
ACGGGTGGGCACTGGACCATCTCGGTGGGAGTGCTTGTGCCACTCTGGAAGGCTGTTCCCTGGGGTTGTGATGTT
TATCATGCCACTTCCTTCTTACCTGTGCCAACAGACCTATTTCACTGCCTCAGCGTACACCAGACCCTTCAGAAA
CCTCTCTGGTGTCACCCAGATAGATTGTGCTTACTGAGACAAATGAACGTTTACTTGATTTAGAAGATAATGTGA
CAGAATGATGTCAGGTTAGGTCAAAGCCAAGGGAGTGACAGAATCTGGAAAATCAAACAATACAAAAAGCCCTAA
ATGAACTGTTAACTATTTGATCTTTGGATGTAAAATTGTAATGCGTATATGTACAAATGTACAATTTTTACATGC
TTTTAAAAAAGGTTAGCTTTGTGAAAATACCTTGTTTGGTCAATGACTTTACTGGGTAATAGAACCACATTGAAC
CTTGATGGCAAGTAATACAATAAGGCAGGCCAGCTCGTTTTTCTCTCTGAATCTGGCTGGTTTAGGAGGAGCCTG
GGTTTATCGACGAGATCTGGAGTATCTATTCTTTTCCACTGCTTGCAGTCTCCAATGTAGGCAGTGTAAAGGTAT
AGTAAAATGATTTTAGGAGTCAGAACCAAATTGCCAATATGCTCCATGGCTCCTAAAGGAAAATAAAATGGAAGT
TTTT

FIGURE 200A

TTGCGGGAAAGAGCCAAACCCTGGCGTTGGGGGGCCCGGGCGGGGAGCCCCTCCCGCGGTCCACAGCGACGCCTG
CCCAGCCCTCCTCCCCTTCCGGCTCCGGCACGGGGCCCCGAGGCGTTCGGAGGCCAGGCGGGTTTCTGTCAGGCC
CGGGGAGGAGGGGCGGGCGGGGCGGCCGCTGCCTCCCCGGGACGGGCCGTACCACGCGGACGGGGAGGACGGGGC
CAGGGGACTGCAGGGCGGCTGCACCGCCCGGGGGCGGGGTGCGGAGCGGGCCGGCGGGCTCCCCGGGGCGGGGCG
GGAGGGCGGGGCGTGGGGCGGACGGAACCACCGGGGCGGGGTGGGAGGTAACGGGACGGGCGCGACCATGGCGCG
GTGAGGGAGCGGGGGTGGGGATCGGTCCGGGGGAGGCCTGAGGCCGCTGGCTTGTGCGCTGTCTCCGCCGCCCCC
CTCTTTCGCCGCCGCCGCCGCCGCCCCGGGC**ATG**TCGTCCAACTGCACCAGCACCACGGCGGTGGCGGTGGCGCC
GCTCAGCGCCAGCAAGACCAAGACCAAGAAGAAGCATTTCGTGTGCCAGAAAGTGAAGCTATTCCGGGCCAGCGA
GCCGATCCTCAGCGTCCTGATGTGGGGGGTGAACCACACGATCAATGAGCTGAGCAATGTTCCTGTTCCTGTCAT
GCTAATGCCAGATGACTTCAAAGCCTACAGCAAGATCAAGGTGGACAATCATCTCTTCAATAAGGAGAACCTGCC
CAGCCGCTTTAAGTTTAAGGAGTATTGCCCCATGGTGTTCCGAAACCTTCGGGAGAGGTTTGGAATTGATGATCA
GGATTACCAGAATTCAGTGACGCGCAGCGCCCCCATCAACAGTGACAGCCAGGGTCGGTGTGGCACGCGTTTCCT
CACCACCTACGACCGGCGCTTTGTCATCAAGACTGTGTCCAGCGAGGACGTGGCGGAGATGCACAACATCTTAAA
GAAATACCACCAGTTTATAGTGGAGTGTCATGGCAACACGCTTTTGCCACAGTTCCTGGGCATGTACCGCCTGAC
CGTGGATGGTGTGGAAACCTACATGGTGGTTACCAGGAACGTGTTCAGCCATCGGCTCACTGTGCATCGCAAGTA
TGACCTCAAGGGTTCTACGGTTGCCAGAGAAGCGAGCGACAAGGAGAAGGCCAAGGACTTGCCAACATTCAAAGA
CAATGACTTCCTCAATGAAGGGCAGAAGCTGCATGTGGGAGAGGAGAGTAAAAAGAACTTCCTGGAGAAACTGAA
GCGGGACGTTGAGTTCTTGGCACAGCTGAAGATCATGGACTACAGCCTGCTGGTGGGCATCCACGACGTGGACCG
GGCAGAGCAGGAGGAGATGGAGGTGGAGGAGCGGGCAGAGGACGAGGAGTGTGAGAATGATGGGGTGGGTGGCAA
CCTACTCTGCTCCTATGGCACACCTCCGGACAGCCCTGGCAACCTCCTCAGCTTTCCTCGGTTCTTTGGTCCTGG
GGAATTCGACCCCTCTGTTGACGTCTATGCCATGAAAAGCCATGAAAGTTCCCCCAAGAAGGAGGTGTATTTCAT
GGCCATCATTGATATCCTCACGCCATACGATACAAAGAAGAAAGCTGCACATGCTGCCAAAACGGTGAAACACGG
GGCAGGGGCCGAGATCTCGACTGTGAACCCTGAGCAGTACTCCAAACGCTTCAACGAGTTTATGTCCAACATCCT
GACG**TAG**TTCTCTTCTACCTTCAGCCAGAGCCAGAGAGCTGGATATGGGGTCGGGGATCGGGAGTTAGGGAGAAG
GGTGTATTTGGGCTAGATGGGAGGGTGGGAGCAGAGTCGGGTTTGGGAGGGCTTTAGCAATGAGACTGCAGCCTG
TGACACCGAAAGAGACTTTAGCTGAAGAGGAGGGGGATGTGCTGTGTGTGCACCTGCTCACAGGATGTAACCCCA
CCTTCTGCTTACCCTTGATTTTTTCTCCCCATTTGACACCCAGGTTAAAAAGGGGTTCCCTTTTTGGTACCTTGT
AACCTTTTAAGATACCTTGGGGCTAGAGATGACTTCGTGGGTTTATTTGGGTTTTGTTTCTGAAATTTCATTGCT
CCAGGTTTGCTATTTATAATCATATTTCATCAGCCTACCCACCCTCCCCATCTTTGCTGAGCTCTCAGTTCCCTT
CAATTAAAGAGATACCCGGTAGACCCAGCACAAGGGTCCTTCCAGAACCAAGTGCTATGGATGCCAGATTGGAGA
GGTCAGACACCTCGCCCTGCTGCATTTGCTCTTGTCTGGATTAACTTTGTAATTTATGGAGTATTGTGCACAACT
TCCTCCACCTTTCCCTTGGATTCAAGTGAAAACTGTTGCATTATTCCTCCATCCTGTCTGGAATACACCAGGTCA
ACACCAGAGATCTCAGATCAGAATCAGAGATCTCAGAGGGGAATAAGTTCATCCTCATGGGATGGTGAGGGGCAG
GAAAGCGGCTGGGCTCTTGGACACCTGGTTCTCAGAGAACCCTGTGATGATCACCCAAGCCCCAGGCTGTCTTAG
CCCCTGGAGTTCAGAAGTCCTCTCTGTAAAGCCTGCCTCCCACTAGGTCAAGAGGAACTAGAGTACCTTTGGATT
TATCAGGACCCTCATGTTTAAATGGTTATTTCCCTTTGGGAAAACTTCAGAAACTGATGTATCAAATGAGGCCCT
GTGCCCTCGATCTATTTCCTTCTTCCTTCTGACCTCCTCCCAGGCACTCTTACTTCTAGCCGAACTCTTAGCTCT
GGGCAGATCTCCAAGCGCCTGGAGTGCTTTTTAGCAGAGACACCTCGTTAAGCTCCGGGATGACCTTGTAGGAGA
TCTGTCTCCCTGTGCCTGGAGAGTTACAGCCAGCAAGGTGCCCCCATCTTAGAGTGTGGTGTCCAAACGTGAGGT
GGCTTCCTAGTTACATGAGGATGTGATCCAGGAAATCCAGTTTGGAGGCTTGATGTGGGTTTTGACCTGGCCTCA
GCCTTGGGGCTGTTTTTCCTTGTTGCCCCGCTCTAGACTTTTAGCAGATCTGCAGCCCACAGGCTTTTTTGGAAG
GAGTGGCTTCCTGCAGGTGTTCCACCTGCCTTCGGAGCCTGCCACCCAGGCCCTCAGAACTGAGCCACAGGCTGC
TCTGGCCAGGAGAGAAACAGCTCTGTTGTTCTGCATTGGGGGAGGTACATTCCTGCATCTTCTCACCCCCTCAAC
CAGGAACTGGGGATTTGGGATGAGATATGGTCAGACTTGTAGATAACCCCAAAGATGTGAAGATCGCTTGTGAAA
CCATTTTGAATGAATAGATTGGTTTCCTGTGGCTCCCTCCAAACCTGGCCAAGCCCAGCTTCCGAAGCAGGAACC
AGCACTGTCTCTGTGCCTGACTCACAGCATATAGGTCAGGAAAGAATGGAGACGGCATTCTTGGACTTCACTGGG
GCTGCTGGATTGGATGGGAAACCTTCTGGAAGAGGCAGATGGGGGTCAAACCACTGCCTTGGCCCCAGGAAGGGG
CCATAGGTAGGTCTGAACAACTGCCGCAAGACCACTACATGACTTAGGGAACTTGAAACCAACTGGCTCATGGAG

FIGURE 200B

AAAACAAATTTGACTTGGGAAAGGGATTATGTAGGAATAATGTTTGGACTTGATTTCCCCACGTCATAATGAAGA
ATGGAAGTTTGGATCTGCTCCTCGTCAGGCGCAGCATCTCTGAAGCTTGGAAAGCTGTCTTCCAG

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FIGURE 201

CCTAGTACACCGCAATC**ATG**TCTATTATGTCCTATAACGGAGGGGCCGTCATGGCCATGAAGGGGAAGAACTGTG
TGGCCATCGCTGCAGACAGGCGCTTCGGGATCCAGGCCCAGATGGTGACCACGGACTTCCAGAAGATCTTTCCCA
TGGGTGACCGGCTGTACATCGGTCTGGCCGGGCTCGCCACTGACGTCCAGACAGTTGCCCAGCGCCTCAAGTTCC
GGCTGAACCTGTATGAGTTGAAGGAAGGTCGGCAGATCAAACCTTATACCCTCATGAGCATGGTGGCCAACCTCT
TGTATGAGAAACGGTTTGGCCCTTACTACACTGAGCCAGTCATTGCCGGGTTGGACCCGAAGACCTTTAAGCCCT
TCATTTGCTCTCTAGACCTCATCGGCTGCCCCATGGTGACTGATGACTTTGTGGTCAGTGGCACCTGCGCCGAAC
AAATGTACGGAATGTGTGAGTCCCTCTGGGAGCCCAACATGGATCCGGATCACCTGTTTGAAACCATCTCCCAAG
CCATGCTGAATGCTGTGGACCGGGATGCAGTGTCAGGCATGGGAGTCATTGTCCACATCATCGAGAAGGACAAAA
TCACCACCAGGACACTGAAGGCCCGAATGGAC**TAA**CCCTGTTCCCAGAGCCCACTTTTTTTTCTTTTTTTGAAAT
AAAATAGCCTGTCTTTC

FIGURE 202

GAGAGCCCGAACAGGAAGAGGGTACAGCTTTGTGCAGGTCACATGCCCACTGCAGCCCTCCAGCCTCTGGTCCCC
AGAGCGGACTTTGGAAGCTGAACTGCTTTTGTTGCTGGAAGACTTATGTTATAATTTACCCTGGGTGGACCAGGG
TCGTACAAAAGGGCAACGCTCCCCAGTCCCCCCACCCCCGACCCCGGAATC**ATG**CATCGGACTACACGGATCAAA
ATCACAGAGCTGAACCCCCACCTCATGTGTGCCCTCTGCGGGGGGTACTTCATCGACGCCACCACTATCGTGGAG
TGCCTGCATTCCTTCTGCAAAACCTGCATCGTGCGCTACCTGGAGACCAACAAATACTGCCCCATGTGTGACGTG
CAGGTCCATAAAACCCGGCCGCTGCTGAGCATCAGGTCTGACAAAACACTTCAAGACATTGTCTACAAATTGGTC
CCTGGGCTTTTTAAAGATGAGATGAAACGGCGGCGGGATTTCTATGCAGCGTACCCCCTGACGGAGGTCCCCAAC
GGCTCCAATGAGGACCGCGGCGAGGTCTTGGAGCAGGAGAAGGGGGCTCTGAGTGATGATGAGATTGTCAGCCTC
TCCATCGAATTCTACGAAGGTGCCAGGGACCGGGACGAGAAGAAGGGCCCCCTGGAGAATGGGGATGGGGACAAA
GAGAAAACAGGGGTGCGCTTCCTGCGATGCCCAGCAGCCATGACCGTCATGCATCTTGCCAAGTTTCTCCGCAAC
AAGATGGATGTGCCCAGCAAGTACAAGGTGGAGGTTCTGTACGAGGACGAGCCACTGAAGGAATACTACACCCTC
ATGGACATCGCCTACATCTACCCCTGGCGGCGGAACGGGCCTCTCCCCCTCAAGTACCGTGTCCAGCCAGCCTGC
AAGCGGCTCACCCTAGCCACGGTGCCCACCCCCTCCGAGGGCACCAACACCAGCGGGGCGTCCGAGTGTGAGTCA
GTCAGCGACAAGGCTCCCAGCCCTGCCACCCTGCCAGCCACCTCCTCCTCCCTGCCCAGCCCAGCCACCCCATCC
CATGGCTCTCCCAGTTCCCATGGGCCTCCAGCCACCCACCCTACCTCCCCCACTCCCCCTTCGACAGCCAGTGGG
GCCACCACAGCTGCCAACGGGGGTAGCTTGAACTGCCTGCAGACACCATCCTCCACCAGCAGGGGGCGCAAGATG
ACTGTCAACGGCGCTCCCGTGCCCCCCTTAACT**TGA**GGCCAGGGACCCTCTCCCTTCTTCCAGCCAAGCCTCTCC
ACTCCTTCCACTTTTTCTGGGCCCTTTTTTCCACCTCTTCTACTTTCCCCAGCTCTTCCCACCTTGGGGGTGGGG
GGCGGGTTTTATAAATAAATATATATATATATGTACATAGGAAAAACCAAATATACATACTTATTTTCTATGGAC
CAACCAGATTAATTTAAATGCCACAGGAAACAAACTTTATGTGTGTGTGTATGTGTGGAAAATGGTGTTCATTTT
TTTTGGGGGGGGTCTTGTGTAATTTGCTGTTTTTGGGGGTGCCTGGAGATGAACTGGATGGGCCACTGGAGTCTC
AATAAAGCTCTGCACCATCCTCGCTGTTTCCCAAGGCAGGTGGTGTGTTGGGGGCCCCTTCAGACCCAAAGCTTT
AGGCATGATTCCAACTGGCTGCATATAGGAGTCAGTTAGAATCGTTTCTTTCTCTCCCCGTTTCTCTCCCCATCT
TGGCTGCTGTCCTGCCTCTGACCAGTGGCCGCCCCCCACGTTGTTGAATGTCCAGAAATTGCTAAGAACAGTGCC
TTTTACAAATGCAGTTTATCCCTGGTTCTGAGGAGCAAGTGCAGGGTGGAGGTGGCACCTGCATCACCTCCTCCT
CTTGCAGTGGAAACTTTGTGCAAAGAATAGATAGTTCTGCCTCTTTTTTTTTTTTCCTGTGTGTGTGGCCTTTG
CATCATTTATCTTGTGGAAAAGAAGATTCAGGCCCTGAGAGGTCTCAGCTCTTGGAGGAGGGCTAAGGCTTTAGC
ATTGTGAAGCGCTGCACCCCCACCAACCTTACCCTCACCGGGGAACCCTCACTAGCAGGACTGGTGGTGGAGTCT
CACCTGGGGCCTAGAGTGGAAGTGGGGGTGGGTTAACCTCACACAAGCACAGATCCCAGACTTTGCCAGAGGCAA
ACAG

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FIGURE 203

GCGGGCGGGCGCGGCGCGGGAGGCGACCATGCGCGGCGCGGGGGCGATCCTGCGGCCGGCGGCGCGTGGTGCCCG
GGACCTGAACCCGCGGCGGGACATCTCCTCCTGGCTGGCCCAGTGGTTCCCTAGAACCCCAGCCAGGTCCGTGGT
GGCCCTGAAGACCCCCATCAAGGTGGAGCTGGTGGCAGGGAAAACCTACAGGTGGTGTGTGTGTGGCCGCAGCAA
GAAGCAGCCCTTCTGTGACGGCTCCCACTTCTTCCAACGCACTGGCCTATCTCCACTCAAGTTCAAGGCCCAAGA
GACCCGCATGGTGGCACTCTGTACCTGCAAGGCCACTCAGAGGCCCCCGTACTGCGATGGCACCCACAGGAGTGA
GCGCGTGCAGAAGGCAGAAGTGGGCTCCCCACTCTGAGGGGGCTGCTGCTGTCCAGCCACAGGTGGCCTTGGCTC
CAGGCCTCTGACAGGCACCCCCTTCTGTGGGAAAGGAAACAGGTGCTGAGCCCAAGAGACTCTGGTACCCACTGC
TGGCTCATGAAGGAAGAATTATTCCTTATAACCTAAAAGTCTCCAGTCTGGGGCAGGCGGGAGTGGGCCCTGGTT
CAATGTTTGCTGATGGGGAAGATGGCAAAAACAAGCCTGCCCAACCAGACTGGTAGTCCTGCAGTCACTGCTATG
AGGCCCACGTGCTGCCTCCTGCTCCAGATTTTAACCTCTCTGTGGGCTGGGGGCACCTGACCAGCCACAGGAGAG
GGCAGTTCAGATTCATTCTGTATGGGGTCCCCAAGCCAGGCTAAACCCAGAGATGAGAGGCACCCTTCCCTTCTT
CCCTCCACCCCAAAGAACTACAGGCTCCAGAAAGTATGCAGCATTTATTACAAAGCCAAGAGATACAGATGTCCC
AGGGCAAAGGAGGGTACAGTCACAGGACCTCAGACACAGGACAAGGTGCAAACACAGACAAGCCCATCAGGGGGC
TCCCAACCCCACACACCTACGCTATGATGGAATCTCGAGTCTCGACTCCCG

FIGURE 204

ATGAAGGAGATGGTAGGAGGCTGCTGCGTATGTTCGGACGAGAGGGGCTGGGCCGAGAACCCGCTGGTCTACTGC
GATGGGCACGCGTGCAGCGTGGTCGTCCACCAAGCTTGCTATGGCATCGTTCAGGTGCCAACGGGACCCTGGTTC
TGCCGGAAATGTGAATCTCAGGAGCGAGCAGCCAGGGTGAGGTGTGAGCTGTGCCCACACAAAGACGGGGCATTG
AAGAGGACTGATAATGGAGGCTGGGCACACGTGGTGTGTGCCCTCTACATCCCCGAGGTGCAATTTGCCAACGTG
CTCACCATGGAGCCCATCGTGCTGCAGTACGTGCCTCATGATCGCTTCAACAAGACCTGTTACATCTGCGAGGAG
CAGGGCCGGGAGAGCAAGGCGGCCTCGGGAGCCTGCATGACCTGTAACCGCCATGGATGTCGACAAGCTTTCCAC
GTCACCTGTGCCCAAATGGCAGGCTTGCTGTGTGAGGAAGAAGTGCTGGAGGTGGACAACGTCAAGTACTGCGGC
TACTGCAAATACCACTTCAGCAAGATGAAGACATCCCGGCACAGCAGCGGGGGAGGCGGAGGAGGCGCTGGAGGA
GGAGGTGGCAGCATGGGGGGAGGTGGCAGTGGTTTCATCTCTGGGAGGAGAAGCCGGTCAGCCTCACCATCCACG
CAGCAGGAGAAGCACCCCACCCACCACGAGAGGGGCCAGAAGAAGAGTCGAAAGGACAAAGAACGCCTTAAGCAG
AAGCACAAGAAGCGGCCTGAGTCGCCCCCCAGCATCCTCACCCCGCCCGTGGTCCCCACTGCTGACAAGGTCTCC
TCCTCGGCTTCCTCTTCCTCCCACCACGAGGCCAGCACGCAGGAGACCTCTGAGAGCAGCAGGGAGTCAAAGGGG
AAAAAGTCTTCCAGCCATAGCCTGAGTCATAAAGGGAAGAAACTGAGCAGTGGGAAAGGTGTGAGCAGTTTTACC
TCCGCCTCCTCTTCTTCCTCCTCCTCTTCCTCCTCCTCTGGGGGGCCCTTCCAGCCTGCAGTCTCGTCCCTGCAG
AGCTCCCCTGACTTCTCTGCATTCCCCAAGCTGGAGCAGCCAGAGGAGGACAAGTACTCCAAGCCCACAGCCCCC
GCCCCTTCAGCCCCTCCTTCTCCCTCAGCTCCCGAGCCCCCCAAGGCTGACCTTTTTGAGCAGAAGGTGGTCTTC
TCTGGCTTTGGGCCCATCATGCGCTTCTCCACCACCACCTCCAGCTCAGGCCGGGCCCGGGCGCCCTCCCCTGGG
GACTATAAGTCTCCCCACGTCACGGGGTCTGGGGCCTCGGCAGGCACCCACAAACGGATGCCCGCACTGAGTGCC
ACCCCTGTGCCTGCTGATGAGACCCCTGAGACAGGCCTGAAGGAGAAGAAGCACAAAGCCAGCAAGAGGAGCCGC
CATGGGCCAGGCCGTCCCAAGGGCAGCCGGAACAAGGAGGGCACTGGGGGCCCAGCTGCCCCATCCTTGCCCAGT
GCCCAGCTGGCTGGCTTTACCGCCACTGCTGCCTCACCCTTCTCTGGAGGTTCCCTGGTCAGCTCCGGCCTGGGA
GGTCTGTCCTCCCGAACCTTTGGGCCTTCTGGGAGCTTGCCCAGCTTGAGCCTGGAGTCCCCCTTACTAGGGGCA
GGCATCTACACCAGTAATAAGGACCCCATCTCCCACAGTGGCGGGATGCTGCGGGCTGTCTGCAGCACCCCTCTC
TCCTCCAGCCTCCTGGGGCCCCCAGGGACCTCGGCCCTGCCCCGCCTCAGCCGCTCCCCGTTCACCAGCACCCTC
CCCTCCTCTTCTGCTTCTATCTCCACCACTCAGGTGTTTTCTCTGGCTGGCTCTACCTTTAGCCTCCCTTCTACC
CACATCTTTGGAACCCCCATGGGTGCCGTTAATCCCCTCCTCTCCCAAGCTGAGAGCAGCCACACAGAGCCAGAC
CTGGAGGACTGCAGCTTCCGGTGTCGGGGGACCTCCCCTCAGGAGAGTCTGTCTTCCATGTCCCCCATCAGCAGC
CTCCCCGCACTCTTCGACCAGACAGCCTCTGCACCCTGTGGGGGCGGCCAGTTAGACCCGGCGGCCCCAGGGACG
ACTAACATGGAGCAGCTTCTGGAGAAGCAGGGCGACGGGGAGGCCGGCGTCAACATCGTGGAGATGCTGAAGGCG
CTGCACGCGCTGCAGAAGGAGAACCAGCGGCTGCAAGAGCAGATCCTGAGCCTGACGGCCAAAAAGGAGCGGCTG
CAGATTCTCAACGTGCAGCTCTCTGTGCCCTTCCCTGCCCTGCCTGCTGCCCTGCCTGCCGCCAACGGCCCTGTC
CCTGGGCCCTATGGCCTGCCTCCCCAAGCCGGCAGCAGCGACTCCTTGAGCACCAGCAAGAGCCCTCCGGGAAAG
AGCAGCCTCGGCCTGGACAACTCGCTGTCCACTTCTTCTGAGGACCCACACTCAGGCTGCCCGAGCCGCAGCAGC
TCGTCGCTGTCCTTCCACAGCACGCCCCCACCGCTGCCCCTCCTCCAGCAGAGCCCTGCCACTCTGCCCCTGGCC
CTGCCTGGGGCCCCTGCCCCACTCCCGCCCCAGCCGCAGAACGGGTTGGGCCGGGCACCCGGGGCAGCGGGGCTG
GGGGCCATGCCCATGGCTGAGGGGCTGTTGGGGGGGCTGGCAGGCAGTGGGGGCCTGCCCCTCAATGGGCTCCTT
GGGGGGTTGAATGGGGCCGCTGCCCCCAACCCCGCAAGCTTGAGCCAGGCTGGCGGGGCCCCCACGCTGCAGCTG
CCAGGCTGTCTCAACAGCCTTACAGAGCAGCAGAGACATCTCCTTCAGCAGCAAGAGCAGCAGCTCCAGCAACTC
CAGCAGCTCCTGGCCTCCCCGCAGCTGACCCCGGAACACCAGACTGTTGTCTACCAGATGATCCAGCAGATCCAG
CAGAAACGGGAGCTGCAGCGCCTGCAGATGGCTGGGGGCTCCCAGCTGCCCATGGCCAGCCTGCTGGCAGGAAGC
TCCACCCCGCTGCTGTCTGCGGGTACCCCTGGCCTGCTGCCCACAGCGTCTGCTCCACCCCTGCTGCCCGCTGGA
GCCCTAGTGGCTCCCTCGCTTGGCAACAACACAAGTCTCATGGCCGCAGCAGCTGCAGCTGCAGCAGTAGCAGCA
GCAGGCGGACCTCCAGTCCTCACTGCCCAGACCAACCCCTTCCTCAGCCTGTCGGGAGCAGAGGGCAGTGGCGGT
GGCCCCAAAGGAGGGACCGCTGACAAAGGAGCCTCAGCCAACCAGGAAAAAGGCTAA

FIGURE 205A

GGCGCCGGCGGCCTCTACAAGCGCGGCTCGGTGCGCTCGCTCAGCACCTACTCGGCCGCCGCGCTGCAGTCCGAT
CTGGAGGACTCCCTGTACAAGGCGGCGGGCGGCGGCGGCCCGCTGTACGGCGACGGCTACGGCTTCCGCCTGCCG
CCTTCGTCACCGCAGAAGCTGGCCGACGTGGCAGCACCCCCCGGAGGTCCCCCGCCACCGCACAGCCCCTACTCG
GGGCCGCCCAGCCGCGGCTCGCCAGTGCGCCAGTCCTTCCGCAAGGACTCGGGCTCCTCGTCCGTCTTTGCCGAG
AGTCCTGGAGGGAAGACCCGCAGCGCGGGGAGCGCCTCGACGGCCGGAGCTCCCCCTTCGGAGCTCTTCCCTGGG
CCTGGGGAACGCTCGCTGGTTGGGTTCGGGCCGCCAGTGCCAGCCAAGGACACGGAGACCAGGGAGCGC**ATG**GAG
GCCATGGAGAAGCAGATTGCCAGCCTCACAGGCCTGGTGCAGAGCGCCTTACTGCGAGGCTCTGAGCCTGAGACC
CCCAGCGAGAAGATTGAAGGCTCCAATGGAGCAGCCACCCCCTCAGCACCCTGTGGGTCAGGCGGCCGGAGCAGC
GGGGCCACCCCGGTGTCCGGCCCGCCCCCGCCCTCGGCCAGCAGCACCCCCGCAGGTCAGCCTACCGCCGTTAGC
CGGCTGCAGATGCAGCTTCACCTGCGAGGCCTGCAGAACAGCGCCAGTGACTTGCGCGGCCAGCTCCAGCAGTTG
CGCAAGCTCCAGCTACAGAACCAGGAGTCGGTGCGCGCGCTGCTGAAGCGCACGGAGGCAGAGCTGAGCATGCGC
GTGTCGGAGGCGGCGCGGCGGCAGGAGGACCCGCTGCAGCGGCAGCGCACCCTGGTGGAAGAGGAACGGCTGCGC
TATCTCAACGACGAGGAGCTTATTACCCAGCAGCTCAATGACCTGGAGAAATCGGTGGAGAAGATCCAGAGAGAC
GTGTCCCACAACCACCGGCTGGTGCCCGGCCCTGAGCTGGAGGAGAAGGCACTGGTGCTGAAGCAGCTCGGGGAG
ACGCTGACAGAGCTCAAGGCTCACTTCCCGGGCCTGCAGAGCAAGATGCGGGTGGTGCTGCGCGTGGAGGTGGAG
GCGGTGAAGTTCCTGAAGGAGGAGCCCCAGCGCCTGGATGGGCTCCTCAAGCGCTGCCGCGGGGTCACGGACACG
CTGGCCCAGATCCGAAGGCAAGTGGATGAGGGTGTGTGGCCACCCCCCAACAATCTCCTGAGTCAGTCCCCCAAG
AAGGTGACGGCAGAGACTGACTTCAACAAGAGCGTGGACTTCGAAATGCCACCCCCCAGCCCCCCGCTGAACCTG
CATGAGCTGAGCGGGCCAGCTGAAGGAGCCTCTCTTACCCCCAAGGGGGGCAACCCCACCAAAGGCCTGGACACT
CCTGGCAAGAGAAGCGTGGACAAAGCTGTGTCTGTTGAGGCTGCAGAGCGAGACTGGGAGGAGAAGCGGGCAGCC
CTGACCCAGTACAGTGCCAAGGACATCAACCGGCTGCTGGAAGAGACACAGGCAGAGCTGCTCAAGGCCATCCCT
GACCTGGACTGTGCCAGCAAGGCCCATCCAGGCCCGGCCCCCACTCCAGATCACAAGCCCCCCAAGGCCCCCCAC
GGCCAGAAGGCAGCCCCCCGAACGGAGCCCAGTGGGAGGAGGGGCTCAGATGAGTTGACCGTGCCCCGATACCGC
ACAGAGAAGCCCTCCAAGTCGCCCCCACCGCCCCCTCCCCGCCGGAGCTTCCCCTCCTCCCATGGCCTGACCACC
ACACGTACCGGAGAGGTGGTGGTCACCAGCAAGAAGGACTCGGCCTTCATCAAGAAGGCTGAGTCCGAGGAGCTG
GAGGTGCAGAAGCCCCAGGTGAAGCTGCGCCGGGCTGTGTCTGAGGTGGCCCGCCCAGCCTCCACACCACCCATC
ATGGCCTCGGCCATCAAGGACGAGGATGACGAGGATCGCATCATCGCAGAGCTAGAGAGTGGCGGAGGCAGTGTA
CCACCCATGAAGGTGGTGACTCCGGGGGCCTCTCGGCTGAAGGCGGCCCAGGGCCAGGCGGGCAGCCCCGACAAA
AGCAAACATGGCAAGCAGAGGGCCGAGTACATGCGGATCCAGGCCCAGCAGCAGGCCACTAAACCATCTAAAGAG
ATGAGCGGGTCGAATGAGACCTCGAGCCCAGTCTCAGAAAAGCCCTCGGCTTCCAGAACCTCTATCCCTGTATTG
ACTTCCTTTGGGGCAAGGAATTCTTCCATCTCCTTC**TAG**AAGCCCCTCACCCCGCTGCCCCGCCTGTCCCCCTCC
CTCACTCCTGCCATTTCTCCCCTCTCTTCCTTCATCTCCACCCCACCCCACCCTACTCTCCAGACGCCCTGAGGG
GTGTGCCCTGAAGAGGAGGGTGCGGCCCTCCTCAGCGACCCCTACCCATCATCTGTTGGTGTTTTTGGTTTTGTT
TTTTTTTTTTTTTTAACAATTAACTTTTAATTATCTTTTTTTAAACAGTAAAACTAAAAACCAAACACACCACCT
TCCTTGATCCCAGCTGGCCTCTCGCTGGCCGCACCTGTCACATCTCTCCTTCTTCTCTTTCACCACTCTTTCCCC
CAGTCCATCCTGAAGCTCCTGCACCCCCTTCCCGCCTTCCCCTCACTTCCCAAGAATACTCCAAACAAACTCTGA
ACCACGGAGACTTGGAGCAGTGGGAGACCCCTCTCCCGTTTCTCGATACCTTCCTGGAGGAACGCGGGGACATCG
GACCAACCCATACATCAAGCCAGAGAGCGGGGCTTAGGGAGACTGGCCTTGGAGATGCCCCACTCCCTGTCTAAG
CTCCGACAAGACTGTGACTTCCTCTGTGGCTGCTCTGCCTCCTCCCACTCACACCCAAGTGGGCCTGGAGTAGAG
ACGGACAGGCTGGAGACGAGGCCGGAGTTTGAGAGGCCTCAGGGTGGGTGTGAGGCCATGGAGTCTGTATCCCTG
GGGAGGCGCTGGCCTCCTGGGCCTTGCCGTCCAGTGGGGAGTGGAGGGCAGAGGCCCTTTGGTCTGCTGGCTGTG
GAGGGTGGGTTGCACGGACAGCCGGATATCGGGGACACTGCCTTGGGAGAGGGCGGCCCGGACGGGTATTTGGTA
CTTTTAGTTTCCTGATTTAGCACTTTAAATGGCATTAACTTATTGAATGGGGATGGGGTGGGCAAGAGTGAGGGG
CCTAGAAAACCAGGTTTTGTGGCTTGCAGTTGGGGGAAGGGTCTGGTTTGAGGGAAATGGGAGGGTCGAGAGGGG
CTTGACGGGGAGCACTGAAGACACCTGGGACCCGCAGGTGGGGTGACTTGAACTTCAGTCATCCTCTTGGCAATT
TGAGGGTTTTCCCAGGAAAGGATGAGACGTAGTTTTTCAATGGGGCTCTGGTGACCCTGGTGAGATGTCTGAAGG
TCCCTGAGGCCTGACCATCCAGCCAGCGCCCCTGGCCTGTGGACGCCCTGCCTGCCCTGCAGAGGCGGTTGGCAG
TGCCGCCTGGCTTTTGGCCGGGTCCTGGGGAGGCAGAGAGAGGCCAATTTTGGTTCTCACTCCTGGCCCCCCAGA

FIGURE 205B

GGGCACAGTGAGGAGCCGGTAGGGAGAGGATAGGAGAAGAGGAGGAGGAGGAGCGGGGTCCCCGGCCGCAGGATT
CCCACTTGGAGCACAAAGTGAAGTAAGCACAGGGGAGGGGGACTAGAATCAGTCCCCCATAGCAAGCACAGAAAG
GAGGAGCTGCGCAGAAGGCAGAGCCCCCCAGACCCTGGGGCCTGGCTGGGGAAGGTCCGCACCTGGGGAGAGCTG
GGAGCTGTTGAAGGTTTGGGGGGAGGGGAAACGGGTTGTGTTTCTTCATTTCTTTTTTTGTTTTTGCCTTTGTTG
GTTCATCCTTGTTTTCTAGCTTTGGATCATTTTTGTACCAAGGCGAGCAAGCCTTTTTGAAAAATAACAAAAGAG
GAAAAAAAAAATCCCTCCTGG

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FIGURE 206

GTGGAATGTCATCAGTTAAGGCTATTTTCATTTCTTTTGTGGATCTTCAGTTGCTTCAGGCCATCTGGATGTATA
CATGCAGGTCACAGGGAATATGATGGCTTAGCTTGGGTTCAGAGGCCTGACACCTCAGGCTGCCAAATGTGGAAG
ATTTAAATACTTGAACCAATACCCTCCTCCCAAAAACTGAAATTGGCTTCTGTTTCTGAGTTGGTCCAGGCGCAA
TGTTCAGCGTATTTGAGGAAATCACAAGAATTGTAGTTAAGGAGATGGATGCTGGAGGGGATATGATTGCCGTTA
GAAGCCTTGTTGATGCTGATAGATTCCGCTGCTTCCATCTGGTGGGGGAGAAGAGAACTTTCTTTGGATGCCGGC
ACTACACAACAGGCCTCACCCTGATGGACATTCTGGACACAGATGGGGACAAGTGGTTAGATGAACTGGATTCTG
GGCTCCAAGGTCAAAAGGCTGAGTTTCAAATTCTGGATAATGTAGACTCAACGGGAGAGTTGATAGTGAGATTAC
CCAAAGAAATAACAATTTCAGGCAGTTTCCAGGGCTTCCACCATCAGAAAATCAAGATATCGGAGAACCGGATAT
CCCAGCAGTATCTGGCTACCCTTGAAAACAGGAAGCTGAAGAGGGAACTACCCTTTTCATTCCGATCAATTAATA
CGAGAGAAAACCTGTATCTGGTGACAGAAACTCTGGAGACGGTAAAGGAGGAAACCCTGAAAAGCGACCGGCAAT
ATAAATTTTGGAGCCAGATCTCTCAGGGCCATCTCAGCTATAAACACAAGGGCCAAAGGGAAGTGACCATCCCCC
CAAATCGGGTCCTGAGCTATCGAGTAAAGCAGCTTGTCTTCCCCAACAAGGAGACGATGAGAAAGTCTTTGGGTT
CGGAGGATTCCAGAAACATGAAGGAGAAGTTGGAGGACATGGAGAGTGTCCTCAAGGACCTGACAGAGGAGAAGA
GAAAAGATGTGCTAAACTCCCTCGCTAAGTGCCTCGGCAAGGAGGATATTCGGCAGGATCTAGAGCAAAGAGTAT
CTGAGGTCCTGATTTCCGGGGAGCTACACATGGAGGACCCAGACAAGCCTCTCCTAAGCAGCCTTTTTAATGCTG
CTGGGGTCTTGGTAGAAGCGCGTGCAAAAGCCATTCTGGACTTCCTGGATGCCCTGCTAGAGCTGTCTGAAGAGC
AGCAGTTTGTGGCTGAGGCCCTGGAGAAGGGGACCCTTCCTCTGTTGAAGGACCAGGTGAAATCTGTCATGGAGC
AGAACTGGGATGAGCTGGCCAGCAGTCCTCCTGACATGGACTATGACCCTGAGGCACGAATTCTCTGTGCGCTGT
ATGTTGTTGTCTCTATCCTGCTGGAGCTGGCTGAGGGGCCTACCTCTGTCTCTTCCTAACTACAAAAGCCCTTTC
TCCCCACAAGCCTCTGGGTTTTCCCTTTACCAGTCTGTCCTCACTGCCATCGCCACTACCATCCTGTCACCAGTG
GGACCTCTTTAAAACAAGCAGCCAACCATTCTTTGATGTATCCCATTCGCTCCATGTTAACATCCAAAACCAGCC
TGGATTTCATACATGGACTTCTGATTAAAAGTGGCAGGTTGTGCATGTT

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FIGURE 207

TGGGGCCACATAGCAGCAGAGGACTGGTGTAAGGGAGGGAGGGGTAGGGACAGAAGCTAGACCCAATCTCCTTTG
GGATGTGGGCAGGGAGGGAAGCAGGCTTGGAGGGTTAATTTACCCACAGAATGTGATAGTAATAGGGGAGGGAGG
CTGCTGTGGGTTTAACTCCTGGGTTGGCTGTTGGGTAGACAGGTGGGGAAAAGGCCCGTGAGTCATTGTAAGCAC
AGGTCCAACTTGGCCCTGACTCCTGCGGGGGTATGGGGAAGCTGTGACAGAAACG**ATG**GGTGCTGTGGTCCTCTG
CAGGCCCTCACCCCTTAACTTCCTCATACAGACTGGCACTGGGCAGGGCCTCTCATGTGGCAGCCACATGTGGCG
TTGTGAGGCCACCCCATGTGGGGTCTGTGGTGAGAGTCCTGTAGGATCCCTGCTCAAGCAGCACAGAGGAAGGGG
CAAGACGTGGCCTGTAGGCACTGTCTCAGCCTGCAGAGAAGAAAGTGAGGCCGGGAGCCTGAGCCTGGGCTGGAG
CCTTCTCCCCTCCCCAGTTGGACTAGGGGCAGTGTTAATTTTGAAAAGGTGTGGGTCCCTGTGTCCTCTTCCAGG
GGTCCAAGGGAACGGGAGAGGTCACTGGGCCTGTTTTCTCCCTCCTGACCCTGCATCTCCCACCCCGTGTATCAT
AGGGAACTTTCACCTTAAAATCTTTCTAAGCAAAGTG**TGA**ATAGGATTTTTACTCCCTTTGTACAGTATTCTGAG
AAACGCAAATAAAAGGGCAACATGTTTCTGTT

FIGURE 208

TGCCAGCGGGGAGGCTGCAGCCGCGGGTTGTTACAGCTGCTGGAGCAGCAGCGGCCCCCGCTCCCGGGAACCGTT
CCCGGGCCGTTGATCTTCGGCCCCACACGAACAGCAGAGAGGGGCAGCAGGATGAATGTGGGCACAGCGCACAGC
GAGGTGAACCCCAACACGCGGGTGATGAACAGCCGTGGCATCTGGCTCTCCTACGTGCTGGCCATCGGTCTCCTC
CACATCGTGCTGCTGAGCATCCCGTTTGTGAGTGTCCCTGTCGTCTGGACCCTCACCAACCTCATTCACAACATG
GGCATGTATATCTTCCTGCACACGGTGAAGGGGACACCCTTTGAGACCCCGGACCAGGGCAAGGCGAGGCTGCTA
ACCCACTGGGAGCAGATGGATTATGGGGTCCAGTTCACGGCCTCTCGGAAGTTCTTGACCATCACACCCATCGTG
CTGTACTTCCTCACCAGCTTCTACACTAAGTACGACCAGATCCATTTTGTGCTCAACACCGTGTCCCTGATGAGC
GTGCTTATCCCCAAGCTGCCCCAGCTCCACGGAGTCCGGATTTTTGGAATCAATAAGTACTGAGAGTGCAGCCCC
TTCCCCTGCCCAGGGTGGCAGGGGAGGGGTAGGGTAAAAGGCATGTGCTGCAACACTGAAGACAGAAAGAAGAAG
CCTCTGGACACTGCCAGAGATGGGGGTTGAGCCTCTGGCCTAATTTCCCCCCTCGCTTCCCCCAGTAGCCAACTT
GGAGTAGCTTGTAGTGGGGTTGGGGTAGGCCCCCTGGGCTCTGACCTTTTCTGAATTTTTTGATCTTTTCCTTTT
GCTTTTTGAATAGAGACTCCATGGAGTTGGTCATGGAATGGGCTGGGCTCCTGGGCTGAACATGGACCACGCAGT
TGCGACAGGAGGCCAGGGGAAAAACCCCTGCTCACTTGTTTGCCCTCAGGCAGCCAAAGCACTTTAACCCCTGCA
TAGGGAGCAGAGGGCGGTACGGCTTCTGGATTGTTTCACTGTGATTCCTAGGTTTTTTCGATGCCACGCAGTGTG
TGCTTTTGTGTATGGAAGCAAGTGTGGGATGGGTCTTTGCCTTTCTGGGTAGGGAGCTGTCTAATCCAAGTCCCA
GGCTTTTGGCAGCTTCTCTGCAACCCACCGTGGGTCCTGGTTGGGAGTGGGGAGGGTCAGGTTGGGGAAAGATGG
GGTAGAGTGTAGATGGCTTGGTTCNCAGAGGTGAGGGGGCCAGGGCTGCTGCCATCCTGGCCTGGTGGAGGTTGG
GGAGCTGTAGGAGAGCTAGTGAGTCGAGACTTAGAAGAATGGGGCCACATAGCAGCAGAGGACTGGTGTAAGGGA

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FIGURE 209

CCCAACCTCCACCAGGCCAGGATGGCAGCAGCCCTGGCCCCCTCACCTCTGNGAACCAAGCCATCTACACTCTAC
CCCATCTTTCCCCAACCTGACCCTCCCCACTCCCAACCAGGACCCACGGTGGGTTGCAGAGAAGCTGCCAAAAGC
CTGGGACTTGGATTAGACAGCTCCCTACCCAGAAAGGCAAAGACCCATCCCACACTTGCTTCCATACACAAAAGC
ACACACTGCGTGGCATCGAAAAAACCTAGGAATCACAGTGAAACAATCCAGAAGCCGTACCGCCCTCTGCTCCCT
ATGCAGGGGTTAAAGTGCTTTGGCTGCCTGAGGGCAAACAAGTGAGCAGGGGTTTTTCCCCTGGCCTCCTGTCGC
AACTGCGTGGTCCATGTTCAGCCCAGGAGCCCAGCCCATTCCATGACC

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FIGURE 210

GGTTTGCAGCTGCTCCGTCATCGTGCGGCCCGACGCTATCTCGCGCTCGTGTGCAGGCCCGGCTCGGCTCCTGGT
CCCCGGTGCGAGGGTTAACGCGAGGCCCCGGCCTCGGTCCCCGGACTAGGCCGTGACCCCGGGTGCCATGAAGCA
GGAGGGCTCGGCGCGGCGCCGCGGCGCGGACAAGGCGAAACCGCCGCCCGGCGGAGGAGAACAAGAACCCCCACC
GCCGCCGGCCCCCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCGACGGGGGAGGCAGACGG
CAAGACGGCGGCGGCAGCGGCTGAGCACTCCCAGCGAGAGCTGGACACAGTCACCTTGGAGGACATCAAGGAGCA
CGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCGTGCTGCGGGCCCTGCGGATGCTGCCTTC
CACATCACGCCGCCTCAACCACTATGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTCAAATAATGCCACTCG
AGACTTTTTGCTCCCCTTCCTGGAAGAGCCCATGGACACAGAGGCTGATTTACAGTTCCGTCCCCGCACGGGAAA
AGCTGCGTCGACACCCCTCCTGCCTGAAGTGGAAGCCTATCTCCAACTCCTCGTGGTCATCTTCATGATGAACAG
CAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCAGTACTCAGAACCGCCGGGCCCT
AGACCTTGTAGCCGCAAAGTGTTACTATTATCACGCCCGGGTCTATGAGTTCCTGGACAAGCTGGATGTGGTGCG
CAGCTTCTTGCATGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGCAGGCCACCCTGTTGAACCT
CCTGCTGCGGAATTACCTACACTACAGCTTGTACGACCAGGCTGAGAAGCTGGTGTCCAAGTCTGTGTTCCCAGA
GCAGGCCAACAACAATGAGTGGGCCAGGTACCTCTACTACACAGGGCGAATCAAAGCCATCCAGCTGGAGTACTC
AGAGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCCTCAGCACACAGCTGTCGGCTTCAAACAGACGGT
GCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGGAGATCCCTGACCGGCTGCAGTTCCGCCAGCCCTCCCT
CAAGCGCTCACTCATGCCCTATTTCCTTCTGACTCAAGCTGTCAGGACAGGAAACCTAGCCAAGTTCAACCAGGT
CCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCTGCGGCACAACGTGAT
TAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTTGGCTGACATCGCCCAGAAGCTGCAGTT
GGATAGCCCCGAAGATGCAGAGTTCATTGTTGCCAAGGCCATCCGGGATGGTGTCATTGAGGCCAGCATCAACCA
CGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCGAGAGCCCCAGCTAGCCTTCCACCA
GCGCATCTCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCCTCCCAAATCGTACAACAA
GGACTTGGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGGAGTTTGCCAAGGAGATGGCAGAAGA
TGATGATGACAGCTTCCCTTGAGCTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAGGCTCTTTCCCCCTTG
GGGGTCCCCTGCCCAGGGCACTGTCCCCATTTTCCCACACACAGCTCATATGCTGCATTCGTGCAGGGGGTGGGG
GTGCTGGGAGCCAGCCACCCTGACCTCCCCCAGGGCTCCTCCCCAGCCGGTGACTTACTGTACAGCAGGCAGGAG
GGTGGGCAGGCAACCTCCCNCCNNGGCAGGGTCCTGGCCAGCAGTGTGGGAGCAGGAGGGGAAGGATAGTTCTGT
GTACTCCTTTAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGTATGTTTTTTGAAGCTTCGATTATGATT
TTTAAACAATAAAAAGTTCTCC

FIGURE 211

CCAAACCGGCCTCCGTCCGGGCCCTGCTGTTTGACATCTCCTTCCTCATGCTGTGCCATGTGGCCCAGACCTATG
GTTCAGAGGTGATTCTGTCCGAGTCGCGCACAGGAGCTGAGGTGCCCTTCTTCGAGACCTGGATGCAGACCTGCA
TGCCTGAGGAGGGCAAGATCCTGAACCCTGACCACCCCTGCTTCCGCCCCGACTCCACCAAAGTGGAGTCCCTGG
TGGCCCTGCTCAACAACTCCTCGGAGATGAAGCTAGTGCAGATGAAGTGGCATGAGGCCTGTCTCAGCATCTCAG
CCGCCATCTTGGAAATCCTCAATGCCTGGGAGAATGGGGTCCTGGCCTTCGAGTCCATCCAGAAAATCACTGATA
ACATCAAAGGGNAAGGTATGCAGTCTGGCGGTGTGTGCTGTGGCTTNGGCTTGTGGCCCACGTCCGGATGCTGGG
GCTGGATGAGCGTGAGAAGTCGCTGCAGATGATCCGCCAGCTGGCAGGGCCNACTGTTTAGTGAGAACACCCTGC
AGTTCTACAATGAGAGGGTGGTGATC**ATG**AACTCGATCCTGGAGCGCATGTGTGCCGACGTGCTGCAGCAGACAG
CCACGCAGATCAAGTTTCCCTCCACCGGGGTGGACACAATGCCCTACTGGAACCTGCTGCCCCCCAAGCGGCCCA
TCAAAGAGGTGCTGACGGACATTTTTGCCAAGGTGCTGGAGAAGGGCTGGGTGGACAGCCGCTCCATCCACATCT
TTGACACCCTGCTGCACATGGGCGGCGTCTACTGGTTCTGCAACAACCTGATTAAGGAGCTGCTGAAGGAGACGC
GGAAGGAGCACACGCTGCGGGCAGTGGAGCTGCTCTACTCCATCTTCTGCCTGGACATGCAGCAAGTGACCCTGG
TCCTGCTGGGCCACATCCTACCTGGCCTGCTCACTGACTCCTCCAAGTGGCACAGCCTCATGGACCCCCCGGGCA
CTGCTCTTGCCAAGCTGGCCGTGTGGTGTGCCCTCAGTTCCTACTCCTCCCACAAGGGACAGGCGTCCACCCGCC
AGAAGAAGAGACACCGCGAAGACATTGAGGATTATATCAGCCTCTTCCCCCTGGACGATGTGCAGCCTTCGAAGT
TGATGCGACTGCTGAGCTCTAATGAGGACGATGCCAACATCCTTTCGAGCCCCACAGACCGATCCATGAGCAGCT
CCCTCTCAGCCTCTCAGCTCCACACGGTCAACATGCGGGACCCTCTGAACCGAGTCCTGGCCAACCTGTTCCTGC
TCATCTCCTCCATCCTGGGGTCTCGCACCGCTGGCCCCCACACCCAGTTCGTGCAGTGGTTCATGGAGGAGTGTG
TGGACTGCCTGGAGCAGGGTGGCCGTGGCAGCGTCCTGCAGTTCATGCCCTTCACCACCGTGTCGGAACTGGTGA
AGGTGTCAGCCATGTCCAGCCCCAAGGTGGTTCTGGCCATCACGGACCTCAGCCTGCCCCTGGGCCGCCAGGTGG
CTGCTAAAGCCATTGCTGCACTC**TGA**GGGGCTTGGCATGGCCGCAGTGGGGGCTGGGGACTGGCGCAGCCCCAGG
CGCCTCCAAGGGAAGCAGTGAGGAAAGATGAGGCATCGTGCCTCACATCCGCTCCACATGGTGCAAGAGCCTCTA
GCGGCTTCCAGTTCCCCGCTCCTGACTCCTGACCTCCAGGATGTCTCCCGGTTTCTTCTTTCAAAATTTCCTCTC
CATCTGCTGGCACCTGAGGAGAGTGAGCAGCCTGGACCACAAGCCCAGTGGTCACCCCTGTGTGCGCCCGCCCCA
GCCCAGGAGTAGTCTTACCTCTGAGGAACTTTCTAGATGCAAAGTGTGTATGTGTGTGTGTGTGTGTGTGTGT
GTGTTTGTGTGTATTTTGTAATATGTGAGGGAAATCTACCTTCGTTCATGTATAAATAAAGCTCCTCGTGGCTCC
CTT

FIGURE 212A

CACACACACACACACACACACACACCCCAACACACACACACACCCCAACACACACACACACACACACAC
ACACACACACACACACACACACACACACACACAGCGGGATGGCCGAGCGCCGCACGCGTAGCACGCCGGGACTAG
CTATCCAGCCTCCCAGCAGCCTCTGCGACGGGCGCGGTGCGTAAGTACCTCGCCGGTGGTGGCCGTTCTCCGTAA
GATGGCGGACCGGCGGCGGCAGCGCGCTTCGCAAGACACCGAGGACGAGGAATCTGGTGCTTCGGGCTCCGACAG
CGGCGGCTCCCCGTTGCGGGGAGGCGGGAGCTGCAGCGGTAGCGCCGGAGGCGGCGGCAGCGGCTCTCTGCCTTC
ACAGCGCGGAGGCCGAACCGGGGCCCTTCATCTGCGGCGGGTGGAGAGCGGGGGCGCCAAGAGTGCTGAGGAGTC
GGAGTGTGTGAGTGAAGATGGCATTGAAGGTGATGCTGTTCTCTCGGATTATGAAAGTGCAGAAGACTCGGAAGG
TGAAGAAGGTGAATACAGTGAAGAGGAAAACTCCAAAGTGGAGCTGAAATCAGAAGCTAATGATGCTGTTAATTC
TTCAACAAAAGAAGAGAAGGGAGAAGAAAAGCCTGACACCAAAAGCACTGTGACTGGAGAGAGGCAAAGTGGGGA
CGGACAGGAGAGCACAGAGCCTGTGGAGAACAAAGTGGGTAAAAAGGGCCCTAAGCATTTGGATGATGATGAAGA
TCGGAAGAATCCAGCATACATACCTCGGAAAGGGCTCTTCTTTGAGCATGATCTTCGAGGGCAAACTCAGGAGGA
GGAAGTCAGACCCAAGGGGCGTCAGCGAAAGCTATGGAAGGATGAGGGTCGCTGGGAGCATGACAAGTTCCGGGA
AGATGAGCAGGCCCCAAAGTCCCGACAGGAGCTCATTGCTCTTTATGGTTATGACATTCGCTCAGCTCATAATCC
TGATGACATCAAACCTCGAAGAATCCGGAAACCCCGATATGGGAGTCCTCCACAAAGAGATCCAAACTGGAACGG
TGAGCGGCTAAACAAGTCTCATCGCCACCAGGGTCTTGGGGGCACCCTACCACCAAGGACATTTATTAACAGGAA
TGCTGCAGGTACCGGCCGTATGTCTGCACCCAGGAATTATTCTCGATCTGGGGGCTTCAAGGAAGGTCGTGCTGG
TTTTAGGCCTGTGGAAGCTGGTGGGCAGCATGGTGGCCGGTCTGGTGAGACTGTTAAGCATGAGATTAGTTACCG
GTCACGGCGCCTAGAGCAGACTTCTGTGAGGGATCCATCTCCAGAAGCAGATGCTCCAGTGCTTGGCAGTCCTGA
GAAGGAAGAGGCAGCCTCAGAGCCACCAGCTGCTGCTCCTGATGCTGCACCACCACCCCCTGATAGGCCCATTGA
GAAGAAATCCTATTCCCGGGCAAGAAGAACTCGAACCAAAGTTGGAGATGCAGTCAAGCTTGCAGAGGAGGTGCC
CCCTCCTCCTGAAGGACTGATTCCAGCACCTCCAGTCCCAGAAACCACCCCAACTCCACCTACTAAGACTGGGAC
CTGGGAAGCTCCGGTGGATTCTAGTACAAGTGGACTTGAGCAAGATGTGGCACAACTAAATATAGCAGAACAGAA
TTGGAGTCCGGGGCAGCCTTCTTTCCTGCAACCACGGGAACTTCGAGGTATGCCCAACCATATACACATGGGAGC
AGGACCTCCACCTCAGTTTAACCGGATGGAAGAAATGGGTGTCCAGGGTGGTCGAGCCAAACGCTATTCATCCCA
GCGGCAAAGACCTGTGCCAGAGCCCCCCGCCCCTCCAGTGCATATCAGTATCATGGAGGGACATTACTATGATCC
ACTGCAGTTCCAGGGACCAATCTATACCCATGGTGACAGCCCTGCCCCGCTGCCTCCACAGGGCATGCTTGTGCA
GCCAGGAATGAACCTTCCCCACCCAGGTTTACATCCCCACCAGACACCAGCTCCTCTGCCCAATCCAGGCCTCTA
TCCCCCACCAGTGTCCATGTCTCCAGGACAGCCACCACCTCAGCAGTTGCTTGCTCCTACTTACTTTTCTGCTCC
AGGCGTCATGAACTTTGGTAATCCCAGTTACCCTTATGCTCCAGGGGCACTGCCTCCCCCACCACCGCCTCATCT
GTATCCTAATACACAGGCCCCATCACAGGTATATGGAGGAGTGACCTACTATAACCCCGCCCAGCAGCAGGTGCA
GCCAAAGCCCTCCCCACCCCGGAGGACTCCCCAGCCAGTCACCATCAAGCCCCCTCCACCTGAGGTTGTAAGCAG
GGGTTCCAGTTAATACAAGTTTCTGAATATTTTAAATCTTAACATCATATAAAAAGCAGCAGAGGTGAGAACTCA
GAAGAGAAATACAGCTGGCTATCTACTACCAGAAGGGCTTCAAAGATATAGGGTGTGGCTCCTACCAGCAAACAG
CTGAAAGAGGAGGACCCCTGCCTTCCTCTGAGGACAGGCTCTAGAGAGAGGGAGAAACAAGTGGACCTCGTCCCA
TCTTCACTCTTCACTTGAGTTGGCTGTGTTCGGGGGAGCAGAGAGAGCCAGACAGCCCCAAGCTTCTGAGTCTAG
ATACAGAAGCCCATGTCTTCTGCTGTTCTTCACTTCTGGGAAATTGAAGTGTCTTCTGTTCCCAAGGAAGCTCCT
TCCTGTTTGTTTTGTTTTCTAAGATGTTCATTTTTAAAGCCTGGCTTCTTATCCTTAATATTATTTTAATTTTTT
CTCTTTGTTTCTGTTTCTTGCTCTCTCTCCCTGCCTTTAAATGAAACAAGTCTAGTCTTCTGGTTTTCTAGCCCC
TCTGGATTCCCTTTTGACTCTTCCGTGCATCCCAGATAATGGAGAATGTATCAGCCAGCCTTCCCCACCAAGTCT
AAAAAGACCTGGCCTTTCACTTTTAGTTGGCATTTGTTATCCTCTTGTATACTTGTATTCCCTTAACTCTAACCC
TGTGGAAGCATGGCTGTCTGCACAGAGGGTCCCATTGTGCAGAAAAGCTCAGAGTAGGTGGGTAGGAGCCCTTCT
CTTTGACTTAGGTTTTTAGGAGTCTGAGCATCCATCAATACCTGTACTATGATGGGCTTCTGTTCTCTGCTGAGG
GCCAATACCCTACTGTGGGGAGAGATGGCACACCAGATGCTTTTGTGAGAAAGGGATGGTGGAGTGAGAGCCTTT
GCCTTTAGGGGTGTGTATTCACATAGTCCTCAGGGCTCAGTCTTTTGAGGTAAGTGGAATTAGAGGGCCTTGCTT
CTCTTCTTTCCATTCTTCTTGCTACACCCCTTTTCCAGTTGCTGTGGACCAATGCATCTCTTTAAAGGCAAATAT
TATCCAGCAAGCAGTCTACCCTGTCCTTTGCAATTGCTCTTCTCCACGTCTTTCCTGCTACAAGTGTTTTAGATG
TTACTACCTTATTTTCCCCGAATTCTATTTTTGTCCTTGCAGACAGAATATAAAAACTCCTGGGCTTAAGGCCTA
AGGAAGCCAGTCACCTTCTGGGCAAGGGCTCCTATCTTTCCTCCCTATCCATGGCACTAAACCACTTCTCTGCTG

FIGURE 212B

CCTCTGTGGAAGAGATTCCTATTACTGCAGTACATACGTCTGCCAGGGGTAACCTGGCCACTGTCCCTGTCCTTC
TACAGAACCTGAGGGCAAAGATGGTGGCTGTGTCTCTCCCCGGTAATGTCACTGTTTTTATTCCTTCCATCTAGC
AGCTGGCCTAATCACTCTGAGTCACAGGTGTGGGATGGAGAGTGGGGAGAGGCACTTAATCTGTAACCCCCAAGG
AGGAAATAACTAAGAGATTCTTCTAGGGGTAGCTGGTGGTTGTGCCTTTTGTAGGCTGTTCCCTTTGCCTTAAAC
CTGAAGATGTCTCCTCAAGCCTGTGGGCAGCATGCCCAGATTCCCAGACCTTAAGACACTGTGAGAGTTGTCTCT
GTTGGTCCACTGTGTTTAGTTGCAAGGATTTTTCCATGTGTGGTGGTGTTTTTTGTTACTGTTTTAAAGGGTGCC
CATTTGTGATCAGCATTGTGACTTGGAGATAATAAAATTTAGACTATAAACTTG

FIGURE 213

ATGAGATCCGCGGTGTTCAAGGCGGCCGCGGCCCCTGCCGGCGGCAATCCTGAGCAGCGACTGGACTACGAGCGG
GCTGCGGCGCTGGGCGGGCCCGAGGACGAGCCTGGGGCGGCCGAAGCCCACTTCCTCCCCCGGCACCGTAAGCTC
AAGGAGCCGGGGCCCCCGCTGGCCTCCTCCCAGGGCGGGAGCCCCGCGCCTTCCCCGGCCGGCTGCGGCGGCAAG
GGCCGGGGCTTGTTACTCCCGGCCGGGGCGGCCCCCGGGCAGCAGGAAGAGAGCTGGGGCGGTTCGGTGCCCTTG
CCCTGTCCGCCCCCGGCCACCAAGCAAGCCGGCATTGGGGGGGAGCCTGCCGCAGCCGGAGCCGGCTGCAGCCCC
CGGCCCAAGTATCAGGCGGTGCTGCCCATTCAGACGGGCTCTCTCGTGGCGGCGGCCAAAGAGCCTACGCCCTGG
GCTGGGGACAAGGGTGGGGCGGCCTCCCCCGCTGCCACCGCCTCGGACCCGGCGGGACCCCCACCACTACCTCTG
CCCGGGCCGCCACCCCTCGCGCCCACCGCCACCGCCGGGACCCTGGCGGCCAGCGAGGGCAGATGGAAGAGTATG
AGGAAGAGCCCTCTCGGGGGTGGTGGCGGCTCGGGAGCCTCCAGTCAGGCCGCCTGCCTCAAACAGATCCTTCTG
CTGCAATTGGACCTCATCGAACAGCAGCAGCAGCAGCTGCAGGCCAAGGAAAAGGAGATCGAGGAGCTGAAGTCA
GAGAGAGACACGCTCCTTGCTCGGATTGAACGTATGGAAAGGCGGATGCAGCTGGTAAAGAAGGATAACGAGAAA
GAAAGGCACAAGCTGTTTCAGGGCTATGAAACTGAAGAGAGAGAGGAAACAGAGCTATCTGAGAAAATTAAACTG
GAGTGCCAGCCGGAGCTTTCCGAGACATCCCAGACTCTGCCTCCCAAGCCCTTCTCATGTGGGCGGAGTGGAAAG
GGACATAAAAGGAAATCCCCATTTGGAAGTACAGAAAGAAAGACTCCTGTTAAAAAGCTGGCTCCTGAATTTTCA
AAAGTCAAAACAAAAACTCCTAAGCACTCTCCTATTAAAGAGGAACCCTGTGGTTCCTTATCTGAAACTGTTTGT
AAACGTGAATTGAGGAGCCAAGAAACCCCAGAAAAGCCCCGGTCTTCAGTGGACACCCCACCAAGACTCTCCACT
CCCCAAAAGGGACCCAGCACCCATCCCAAGGAGAAAGCCTTCTCAAGTGAGATAGAAGATTTGCCGTACCTTTCC
ACCACAGAAATGTATTTGTGTCGTTGGCACCAGCCTCCCCCATCACCGTTACCATTACGGGAATCCTCTCCAAAG
AAGGAGGAGACTGTAGCAAGTAAGGCATAGAACACTTGCTCTTATACCCTAGTGGTGGCGGTCAAGCTAACAA
GTGTGAAAATGCCTTTGGCATTTTTAAAAAAGTGCAATCAATAAAGCAGAGTTCTGTCAAGAATGAGTAAGTTAA
CAGCCAGAGACAGACACTGTGCAGGCATTGCAAATAGATGGAATTACAGCAAAATGTGCTCAATGTATTTGCCTG
CTTACAACACTGGGAGATGTGTTTGCCAGTAAGTTGCTCATCACAAGAGCACCAGACTTGGGGGTGTAATCTCCG
GCAACTTGCATGCCCTCTGAAAGAAGGGTTTTCTGTGCTGTGAAATGCATAGAACTATACTTTGCCATGCACGAC
TGTTCCTGCAATTGATATTGTGTGAAATCT

FIGURE 214

CCAGGGACAGCGCCGCCTCAGATATCCTGCTGGATGACATTGTCCTTACCCATTCTCTCTTCCTCCCGACGGAGA
AATTTCTGCAGGAGCTACACCAGTACTTTGTTCGGGCAGGAGGC**ATG**GAGGGCCCTGAAGGGCTGGGCCGGAAGC
AAGCCTGTCTAGCCATGCTTCTCCATTTCTTGGACACCTACCAGGGGCTGCTTCAAGAGGAAGAGGGGGCCGGCC
ACATCATCAAGGATCTATACCTGCTAATTATGAAGGACGAGTCCCTTTACCAGGGCCTCCGAGAGGACACTCTGA
GGCTGCACCAGCTGGTGGAGACGGTGGAACTAAAGATTCCAGAGGAGAACCAGCCACCCAGCAAGCAGGTGAAGC
CACTCTTCCGCCACTTCCGCCGGATAGACTCCTGTCTGCAGACCCGGGTGGCCTTCCGGGGCTCTGATGAGATCT
TCTGCCGTGTATACATGCCTGACCACTCTTATGTGACCATACGCAGCCGCCTTTCAGCATCTGTGCAGGACATTC
TGGGCTCTGTGACGGAGAAACTTCAATATTCAGAGGAGCCCGCGGGGCGTGAGGATTCCCTCATCCTGGTAGCTG
TGTCCTCCTCTGGAGAGAAGGTCCTTCTCCAGCCCACTGAGGACTGTGTTTTCACCGCACTGGGCATCAACAGCC
ACCTGTTTGCCTGTACTCGGGACAGCTATGAGGCTCTGGTGCCCCTCCCCGAGGAGATCCAGGTCTCCCCTGGAG
ACACAGAGATCCACCGAGTGGAGCCTGAGGACGTTGCCAACCACCTAACTGCCTTCCACTGGGAGCTGTTCCGAT
GTGTGCATGAGCTGGAGTTCGTGGACTACGTGTTCCACGGGGAGCGCGGCCGCCGGGAGACGGCCAACTTGGAGC
TGCTGCTGCAGCGCTGCAGCGAGGTCACGCACTGGGTGGCCACCGAAGTGCTGCTCTGCGAGGCCCCGGGCAAGC
GCGCGCAGCTGCTCAAGAAGTTCATCAAGATCGCGGCCCTCTGCAAGCAGAACCAGGACCTGCTGTCTTTCTACG
CCGTGGTCATGGGGCTGGACAACGCCGCTGTCAGCCGCCTTCGACTCACCTGGGAGAAGCTGCCAGGGAAATTCA
AGAACTTGTTTCGCAAATTTGAGAACCTGACGGACCCCTGCAGGAACCACAAAAGCTACCGAGAAGTGATCTCCA
AAATGAAGCCCCCTGTGATTCCCTTCGTGCCTCTGATCCTCAAAGACCTGACTTTCCTGCACGAAGGGAGTAAGA
CCCTTGTAGATGGTTTGGTGAACATCGAGAAGCTGCATTCAGTGGCCGAAAAAGTGAGGACAATCCGCAAATACC
GGAGCCGGCCCCTTTGCCTGGACATGGAGGCATCCCCCAATCACCTGCAGACCAAGGCCTATGTGCGCCAGTTTC
AGGTCATCGACAACCAGAACCTCCTCTTCGAGCTCTCCTACAAGCTGGAGGCAAACAGTCAG**TGA**GAGTGGAGGC
TCCAGTCAGACCCGCCAGATCCTTGGGCACCTGGCACTCAAGCACTTTGCACGATGTCTCAACCAACATCTGACA
TCTTTCCCGTGGAGCAACTTCCTGCTCCACGGGAAAGAGGTCGATGGATTTACCCCTGGACCCATAAGTCTGTTC
ATCCTGCTGAAGTCCCCTCCCCATTGCTCCTTCAAGCCAAAACTACACTTTGCTGGTTCCTGTCCCCTCTGAGAA
AGGGGATAGAAAGCTCCTTCCTCTATGTCCTCCCATCGAGATCTGTTCTGGGGATGGAGCTTCCAACTTCCTCTT
GCAGCAGGAAAGAATGCTGCTCACCCTTCTGTCTTGCAGAGTGGGATTGTGGGAGGGATTGGCAGCCTTCTTCTC
CACCACCTGTCCAGCTTCTTCCTGGTCAGGGCTGGGACCCCCAGGAATATTATGTTGCCGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCTTCTTTTAGGGAGCAAGAGTGCATCTGGTAAT
TGAGGGTGGATGTTGTGTGTGCTGGGGAGGGGTCCTTCTGTTTGGTGCTACCCTTGTCTACTCTGCCCCTGGATG
GTGCGGGGTGCTTTCTCCACCCCCACACTCCCTGCTCAGCTCCTCGTGCTGCCCTGCATGCCCAGGCTTGTGAGC
CAAGCTGCTTTTTGGGGCAGGGAGTAGCAGCAGGTGGGAGGGGTTACCCATCAGCCCTTGCAAGTCCCCCACTCA
GGCCTCTGGAAGGTCCAGGGATGGGCTCTGATGAGAGGGTAAAAGATGCTCAGGGAAACACAGGCCTCAGCTGCC
TAGAGGACCCTCCCCCTGCCTTGCAGTGGGCTCGGGTAGAGCAGTATCAGGAGCTAGGGTTGTCTGCTGCCCACA
CTCCTGCTTTTTGGGATATCTAACTGCTAAGGAGGGAGTTGACATCCCCCTTCTGGCTCATGTGTCTGACACCAA
CAACATGGTCTCTGTCCCTCTCTCTTTGACTCTCCCTTTGTCCTCCCCATAGAGCTGGGGTGGGGTGGATCCCTA
TACCTGGGGCAGGCAGCCCCAAAGTGGGGGAGGGGGATGGCAGAGACTGTAAAGGCGCCACTGGACTCTGGCAAG
GCCTTTATTACCTTTACTCCCCTCCCTCTCCCATCACCAGCCTCAAGGCCTGAGGGGTGCAGGGGCTCCTGGCAG
CTACTGGGTGAGGTTTCCTGGCACAGACTCACCCTTCTTTCTGGCACCACCTCTTTCCCTTTTGAAGAGACAGCA
ACAGCCGTAGCAAAAGCAGCTGCTGCTCCTGCTATGAGGGTGTATATATTTTTTACCCAAAGCTCTGGAATTGTA
CATTTATTTTTTAAAACTCAAAGAGGGAAAGAGCCTTGTATCATATGTGAACATTGTATCATAGGTAATGTTGTA
CAGACCCTTTTATACAGTGATCTGTCTTGTTCCTGCAGCAAAAATCCTCTATGGACATAGGAGGTGCTGTGTCCC
ATGCCCTCTTGCCCTGACAGTGTCCCATGGGCCCCCTTCTGCTCCCTGCCCCCTCCCTGCTACTGCTGATGCACT
CTCCTCTCCCTGCAGCCCCTGGCTTCCCAGCCTTCCTCCTGACCCCTTCCAACAGCCTTGGAACTCCAGCTGCCA
CCACCCTCTGGGTCGGACACTGGGACCCACTGGCCCAGTCTTGGCTGCTGCTTACCCCTAGCCTTGATGCCTGCC
CAGGGACCCCCAGCCCCCTCCCGTTGCCCTGCAGCTTTAACAGAGTGAACCATGTGTATTGTACAGGCGCGGTTG
TCATTGCAGAAACCGCTGGGTGGAGAAGAAGCCGATAAAGTCTATGAATC

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FIGURE 215

CCCCCTACACACACACACACACACACACACACACACACACACACACACAGACATGCACACACGGACATGGGAAGGCA
ATGCTATGCTGCCCGACAGGGCACTGTCCTTCCCCAATCGTTCAGGTGTTCCAACAGGGGTGGAGGGCCTGGAGG
AGCACCCGCTGTCACCTGTGCATGTGCCTGTCCCACCGGCCCCCCATGGACGCCCCCAGCACGGGGCGCTGAGAC
CCCCGCGTCGCTGCCCAGCCCGGTCCGGCGCGCCACGCCGAGGGATCTCTGGACAGGACAAGACTCCGAAGCTAC
TCCCCCAGCACACAGCCCGGGACCCACAAACCCAGCTTGCCCCCAGCCCTCCCACCTGCCACTCCCTGGCCCCTC
CCACCGCCCGCCCCCCTTGGGGCGCAGGGCATGGTGTGAAAGGCCAAGTGCTGAGGCGGGTATCATGGGTGCTGT
GCCCTAGGGCCTGGGTGGCAGGGGGTNGGGTGGCCTGTGGGTGTGCCGGGGGGGCCAGTGTGCCCACCCCAGTCT
CTTGGCGTGCTGGAGGGCATCCTGGATGGAATTGAAGTGAATGGAACAGAAGCCAAGCAAGGTGGAGTGTGGGTC
AGACCCAGAGGAGAACAGTGCCAGGTCACCAGATGGAAAGCGAAAAAGAAAGAACGGCCAATGTTCCCTGAAAAC
CAGCATGTCAGGGTATATCCCTAGTTACCTGGACAAAGACGAGCAGTGTGTCGTGTGTGGGGACAAGGCAACTGG
TTATCACTACCGCTGTATCACTTGTGAGGGCTGCAAGG

FIGURE 216

CGAGGCGCTCCCTGGGATCACATGGTACCTGCTCCAGTGCCGCGTGCGGCCCGGGAACCCTGGGCTGCTGGCGCC
TGCGCAGAGCCCTCTGTCCCAGGGAAAGGCTCGGGCAAAAGGCGGCTGAGATTGGCAGAGTGAAATATTACTGCC
GAGGGAACGTAGCAGGGCACACGTCTCGCCTCTTTGCGACTCGGTGCCCCGTTTCTCCCCATCACCTACTTACTT
CCTGGTTGCAACCTCTCTTCCTCTGGGACTTTTGCACCGGGAGCTCCAGATTCGCCACCCCGCAGCGCTGCGGAG
CCGGCAGGCAGAGGCACCCCGTACACTGCAGAGACCCGACCCTCCTTGCTACCTTCTAGCCAGAACTACTGCAGG
CTGATTCCCCCTACACACTCTCTCTGCTCTTCCCATGCAAAGCAGAACTCCGTTGCCTCAACGTCCAACCCTTCT
GCAGGGCTGCAGTCCGGCCACCCCAAGACCTTGCTGCAGGGTGCTTCGGATCCTGATCGTGAGTCGCGGGGTCCA
CTCCCCGCCCTTAGCCAGTGCCCAGGGGGCAACAGCGGCGATCGCAACCTCTAGTTTGAGTCAAGGTCCAGTTTG
AATGACCGCTCTCAGCTGGTGAAGACATGACGACCCTGGACTCCAACAACAACACAGGTGGCGTCATCACCTACA
TTGGCTCCAGTGGCTCCTCCCCAAGCCGCACCAGCCCTGAATCCCTCTATAGTGACAACTCCAATGGCAGCTTCC
AGTCCCTGACCCAAGGCTGTCCCACCTACTTCCCACCATCCCCCACTGGCTCCCTCACCCAAGACCCGGCTCGCT
CCTTTGGGAGCATTCCACCCAGCCTGAGTGATGACGGCTCCCCTTCTTCCTCATCTTCCTCGTCGTCATCCTCCT
CCTCCTTCTATAATGGGAGCCCCCCTGGGAGTCTACAAGTGGCCATGGAGGACAGCAGCCGAGTGTCCCCCAGCA
AGAGCACCAGCAACATCACCAAGCTGAATGGCATGGTGTTACTGTGTAAAGTGTGTGGGGACGTTGCCTCGGGCT
TCCACTACGGTGTGCACGCCTGCGAGGGCTGCAAGGGCTTTTTCCGTCGGAGCATCCAGCAGAACATCCAGTACA
AAAGGTGTCTGAAGAATGAGAATTGCTCCATCGTCCGCATCAATCGCAACCGCTGCCAGCAATGTCGCTTCAAGA
AGTGTCTCTCTGTGGGCATGTCTCGAGACGCTGTGCGTTTTGGGCGCATCCCCAAACGAGAGAAGCAGCGGATGC
TTGCTGAGATGCAGAGTGCCATGAACCTGGCCAACAACCAGTTGAGCAGCCAGTGCCCGCTGGAGACTTCACCCA
CCCAGCACCCCACCCCAGGCCCCATGGGCCCCTCGCCACCCCCTGCTCCGGTCCCCTCACCCCTGGTGGGCTTCT
CCCAGTTTCCACAACAGCTGACGCCTCCCAGATCCCCAAGCCCTGAGCCCACAGTGGAGGATGTGATATCCCAGG
TGGCCCGGGCCCATCGAGAGATCTTCACCTACGCCCATGACAAGCTGGGCAGCTCACCTGGCAACTTCAATGCCA
ACCATGCATCAGGTAGCCCTCCAGCCACCACCCCACATCGCTGGGAAAATCAGGGCTGCCCACCTGCCCCCAATG
ACAACAACACCTTGGCTGCCCAGCGTCATAACGAGGCCCTAAATGGTCTGCGCCAGGCTCCCTCCTCCTACCCTC
CCACCTGGCCTCCTGGCCCTGCACACCACAGCTGCCACCAGTCCAACAGCAACGGGCACCGTCTATGCCCCACCC
ACGTGTATGCAGCCCCAGAAGGCAAGGCACCTGCCAACAGTCCCCGGCAGGGCAACTCAAAGAATGTTCTGCTGG
CATGTCCTATGAACATGTACCCGCATGGACGCAGTGGGCGAACGGTGCAGGAGATCTGGGAGGATTTCTCCATGA
GCTTCACGCCCGCTGTGCGGGAGGTGGTAGAGTTTGCCAAACACATCCCGGGCTTCCGTGACCTTTCTCAGCATG
ACCAAGTCACCCTGCTTAAGGCTGGCACCTTTGAGGTGCTGATGGTGCGCTTTGCTTCGTTGTTCAACGTGAAGG
ACCAGACAGTGATGTTCCTAAGCCGCACCACCTACAGCCTGCAGGAGCTTGGTGCCATGGGCATGGGAGACCTGC
TCAGTGCCATGTTCGACTTCAGCGAGAAGCTCAACTCCCTGGCGCTTACCGAGGAGGAGCTGGGCCTCTTCACCG
CGGTGGTGCTTGTCTCTGCAGACCGCTCGGGCATGGAGAATTCCGCTTCGGTGGAGCAGCTCCAGGAGACGCTGC
TGCGGGCTCTTCGGGCTCTGGTGCTGAAGAACCGGCCCTTGGAGACTTCCCGCTTCACCAAGCTGCTGCTCAAGC
TGCCGGACCTGCGGACCCTGAACAACATGCATTCCGAGAAGCTGCTGTCCTTCCGGGTGGACGCCCAGTGACCCG
CCCGGCCGGCCTTCTGCCGCTGCCCCCTTGTACAGAATCGAACTCTGCACTTCTCTCTCCTTTACGAGACGAAAA
GGAAAAGCAAACCAGAATCTTATTTATATTGTTATAAAATATTCCAAGATGAGCCTCTGGCCCCCTGAGCCTTCT
TGTAAATACCTGCCTCCCTCCCCCATCACCGAACTTCCCCTGCTCCTTTTTTTAAACCACTCTGTCTCCCCCACA
ACCCTCCCCTGGCCCTCTGATTTGTTCTGTTCCTGTCTCAAATCCAATAGTTCACAGCTGAGCTGG

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FIGURE 217

AGGGCTTCTTTCGCCGCACAATCCAGAAGAACCTNCCATCCCACCTATTCCTGCAAATATGACAGCTGCTGTGTC
ATTGACAAGATCACCCGCAATCAGTGCCAGCTGTGCCGCTTCAAGAAGTGCATCGCCGTGGGC**ATG**GCCATGGAC
TTGGTTCTAGATGACTCGAAGCGGGTGGCCAAGCGTAAGCTGATTGAGCAGAACCGGGAGCGGCGGCGGAAGGAG
GAGATGATCCGATCACTGCAGCAGCGACCAGAGCCCACTCCTGAAGAGTGGGATCTGATCCACATTGCCACAGAG
GCCCATCGCAGCACCAATGCCCAGGGCAGCCATTGGAAACAGAGGCGGAAATTCCTGCCCGATGACATTGGCCAG
TCACCCATTGTCTCCATGCCGGACGGAGACAAGGTGGACCTGGAAGCCTTCAGCGAGTTTACCAAGATCATCACC
CCGGCCATCACCCGTGTGGTGGACTTTGCCAAAAAACTGCCCATGTTCTCCGAGCTGCCTTGCGAAGACCAGATC
ATCCTCCTGAAGGGGTGCTGCATGGAGATCATGTCCCTGCGGGCGGCTGTCCGCTACGACCCTGAGAGCGACACC
CTGACGCTGAGTGGGGAGATGGCTGTCAAGCGGGAGCAGCTCAAGAATGGCGGCCTGGGCGTAGTCTCCGACGCC
ATCTTTGAACTGGGCAAGTCACTCTCTGCCTTTAACCTGGATGACACGGAAGTGGCTCTGCTGCAGGCTGTGCTG
CTAATGTCAACAGACCGCTCGGGCCTGCTGTGTGTGGACAAGATCGAGAAGAGTCAGGAGGCGTACCTGCTGGCG
TTCGAGCACTACGTCAACCACCGCAAACACAACATTCCGCACTTCTGGCCCAAGCTGCTGATGAAGGAGAGAGAA
GTGCAGAGTTCGATTCTGTACAAGGGGGCAGCGGCAGAAGGCCGGCCGGGCGGGTCACTGGGCGTCCACCCGGAA
GGACAGCAGCTTCTCGGAATGCATGTTGTTCAGGGTCCGCAGGTCCGGCAGCTTGAGCAGCAGCTTGGTGAAGCG
GGAAGTCTCCAAGGGCCGGTTCTTCAGCACCAGAGCCCGAAGAGCCCGCAGCAGCGTCTCCTGGAGCTGCTCCAC
CGAAGCGGAATTCTCCATGCCCGAGCGGTCTGTGGGGAAGACGACAGCAGTGAGGCGGACTCCCCGAGCTCCTCT
GAGGAGGAACCGGAGGTCTGCGAGGACCTGGCAGGCAATGCAGCCTCTCCC**TGA**AGCCCCCCAGAAGGCCGATGG
GGAAGGAGAAGGAGTGCCATACCTTCTCCCAGGCCTCTGCCCCAAGAGCAGGAGGTGCCTGAAAGCTGGGAGCGT
GGGCTCAGCAGGGCTGGTCACCTCCCATCCCGTAAGACCACCTTCCCTTCCTCAGCAGGCCAAACATGGCCAGAC
TCCCTTGCTTTTTGCTGTGTAGTTCCCTCTGCCTGGGATGCCCTTCCCCCTTTCTCTGCCTGGCAACATCTTACT
TGTCCTTTGAGGCCCCAACTCAAGTGTCACCTCCTTCCCCAGCTCCCCCAGGCAGAAATAG

FIGURE 218

CTCCTCTCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACC**ATG**ACCACCTCCATCCGCCAGTTCACC
TCCTCCAGCTCCATCAAGGGCTCCTCCGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCGGCTGTCTGGCGGC
CTGGGTGCCGGCTCCTGCAGGCTGGGATCTGCTGGCGGCCTGGGCAGCACCCTCGGGGGTAGCAGCTACTCCAGC
TGCTACAGCTTTGGCTCTGGTGGTGGCTATGGCAGCAGCTTTGGGGGTGTTGATGGGCTGCTGGCTGGAGGTGAG
AAGGCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCAAC
ACTGAGCTGGAGGTGAAGATCCGTGACTGGTACCAGAGGCAGGCCCCGGGGCCCGCCCGTGACTACAGCCAGTAC
TACAGGACAATTGAGGAGCTGCAGAACAAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACAGATT
GACAATGCCCGTCTGGCTGCTGATGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGCGCCTGAGTGTGGAG
GCCGACATCAATGGCCTGCGCAGGGTGCTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCAGATTGAG
AACCTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCTGCGAGGCCAGGTGGGT
GGTGAGATCAATGTGGAGATGGACGCTGCCCCAGGCGTGGACCTGAGCCGCATCCTCAACGAGATGCGTGACCAG
TATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAACTGAACCGC
GAGGTGGCCACCAACAGTGAGCTGGTGCAGAGTGGCAAGAGTGAGATCTCGGAGCTCCGGCGCACCATGCAGGCC
TTGGAGATAGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGC
TACTGCGTGCAGCTGTCCCAGATCCAGGGGCTGATTGGCAGCGTGGAGGAGCAGCTGGCCCAGCTTCGCTGCGAG
ATGGAGCAGCAGAACCAGGAATACAAAATCCTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTAC
CGCCGCCTGCTGGAGGGAGAGGATGCCCACCTGACTCAGTACAAGAAAGAACCGGTGACCACCCGTCAGGTGCGT
ACCATTGTGGAAGAGGTCCAGGATGGCAAGGTCATCTCCTCCCGCGAGCAGGTCCACCAGACCACCCGC**TGA**GGA
CTCAGCTACCCCGGCCGGCCACCCAGGAGGCAGGGAGGCAGCCGCCCCATCTGCCCCACAGTCTCCGGCCTCTCC
AGCCTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCTTGCCTGATGACAATAAAGCTTGTTGACTCAGCT

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FIGURE 219

ATGACCACCTGCAGCCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGAGGCGGCATCGGG
GGCGGCTCCAGCCGCATCTCCTCCGTCCTGGCCGGAGGGTCCTGCCGTGCCCCCAGCACCTACGGGGGCGGCCTG
TCTGTCTCCTCTCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGC
AGCAGCTTTGGTAGTGGCTTCGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTCGGTGGTGGCTTGGGTGCT
GGCTTTGGTGGTGGTTTTGCTGGTGGTGATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAAT
GACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGT
GACTGGTACCAGAGGCAGCGGCCCAGTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATCGAGGACCTGAGG
AACAAGATCATTGCGGCCACCATTGAGAATGCGCAGCCCATTTTGCAGATTGACAATGCCAGGCTGGCAGCCGAT
GACTTCAGGACCAAGTATGAGCACGAACTGGCCCTGCGGCAGACTGTGGAGGCCGACGTCAATGGCCTGCGCCGG
GTGTTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGATCGAAGGCCTGAAGGAGGAGCTGGCCTAC
CTGAGGAAGAACCACGAGGAGGAGATGCTTGCTCTGAGAGGTCAGACCGGCGGAGATGTGAACGTGGAGATGGAT
GCTGCACCTGGCGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGACCAGTACGAGCAGATGGCAGAGAAAAAC
CGCAGAGACGCTGAGACCTGGTTCCTGAGCAAGACCGAGGAGCTGAACAAAGAAGTGGCCTCCAACAGCGAACTG
GTACAGAGCAGCCGCAGTGAGGTGACGGAGCTCCGGAGGGTGCTCCAGGGCCTGGAGATTGAGCTGCAGTCCCAG
CTCAGCATGAAAGCATCCCTGGAGAACAGCCTGGAGGAGACCAAAGGCCGCTACTGCATGCAGCTGTCCCAGATC
CAGGGACTGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCCAGGAGTAC
CAGATCTTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTACCGCCGCCTGCTGGAGGGCGAGGAT
GCCCACCTTTCCTCCCAGCAAGCATCTGGCCAATCCTATTCTTCCCGCGAGGTCTTCACCTCCTCCTCGTCCTCT
TCGAGCCGTCAGACCCGGCCCATCCTCAAGGAGCAGAGCTCATCCAGCTTCAGCCAGGGCCAGAGCTCCTAG

FIGURE 220

GGGTTGCTCCGTCCGTGCTCCGCCTCGCCATGACTTCCTACAGCTATCGCCAGTCGTCGGCCACGTCGTCCTTCG
GAGGCCTGGGCGGCGGCTCCGTGCGTTTTGGGCCGGGGGTCGCCTTTCGCGCGCCCAGCATTCACGGGGGCTCCG
GCGGCCGCGGCGTATCCGTGTCCTCCGCCCGCTTTGTGTCCTCGTCCTCCTCGGGGGCCTACGGCGGCGGCTACG
GCGGCGTCCTGACCGCGTCCGACGGGCTGCTGGCGGGCAACGAGAAGCTAACCATGCAGAACCTCAACGACCGCC
TGGCCTCCTACCTGGACAAGGTGCGCGCCCTGGAGGCGGCCAACGGCGAGCTAGAGGTGAAGATCCGCGACTGGT
ACCAGAAGCAGGGGCCTGGGCCCTCCCGCGACTACAGCCACTACTACACGACCATCCAGGACCTGCGGGACAAGA
TTCTTGGTGCCACCATTGAGAACTCCAGGATTGTCCTGCAGATCGACAATGCCCGTCTGGCTGCAGATGACTTCC
GAACCAAGTTTGAGACGGAACAGGCTCTGCGCATGAGCGTGGAGGCCGACATCAACGGCCTGCGCAGGGTGCTGG
ATGAGCTGACCCTGGCCAGGACCGACCTGGAGATGCAGATCGAAGGCCTGAAGGAAGAGCTGGCCTACCTGAAGA
AGAACCATGAGGAGGAAATCAGTACGCTGAGGGGCCAAGTGGGAGGCCAGGTCAGTGTGGAGGTGGATTCCGCTC
CGGGCACCGATCTCGCCAAGATCCTGAGTGACATGCGAAGCCAATATGAGGTCATGGCCGAGCAGAACCGGAAGG
ATGCTGAAGCCTGGTTCACCAGCCGGACTGAAGAATTGAACCGGGAGGTCGCTGGCCACACGGAGCAGCTCCAGA
TGAGCAGGTCCGAGGTTACTGACCTGCGGCGCACCCTTCAGGGTCTTGAGATTGAGCTGCAGTCACAGCTGAGCA
TGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGCCCAGCTGGCGCATATCCAGGCGC
TGATCAGCGGTATTGAAGCCCAGCTGGGCGATGTGCGAGCTGATAGTGAGCGGCAGAATCAGGAGTACCAGCGGC
TCATGGACATCAAGTCGCGGCTGGAGCAGGAGATTGCCACCTACCGCAGCCTGCTCGAGGGACAGGAAGATCACT
ACAACAATTTGTCTGCCTCCAAGGTCCTCTGAGGCAGCAGGCTCTGGGGCTTCTGCTGTCCTTTGGAGGGTGTCT
TCTGGGTAGAGGGATGGGAAGGAAGGGACCCTTACCCCCGGCTCTTCTCCTGACCTGCCAATAAAAATTTATGGT
CCAAGGG

FIGURE 221

GGTACCTCCTGCCAGCATCTCTTGGGTTTGCTGAGAACTCACGGGCTCCAGCTACCTGGCC**ATG**ACCACCACATT
TCTGCAAACTTCTTCCTCCACCTTTGGGGGTGGCTCAACCCGAGGGGGTTCCCTCCTGGCTGGGGGAGGTGGCTT
TGGTGGGGGGAGTCTCTCTGGGGGAGGTGGAAGCCGAAGTATCTCAGCTTCTTCTGCTAGGTTTGTCTCTTCAGG
GTCAGGAGGAGGATATGGGGGTGGCATGAGGGTCTGTGGCTTTGGTGGAGGGGCTGGTAGTGTTTTCGGTGGAGG
CTTTGGAGGGGGCGTTGGTGGGGGTTTTGGTGGTGGCTTTGGTGGTGGCGATGGTGGTCTCCTCTCTGGCAATGA
GAAAATTACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTACGTGCCCTGGAGGAGGCCAA
TGCTGACCTGGAGGTGAAGATCCATGACTGGTACCAGAAGCAGACCCCAACCAGCCCAGAATGCGACTACAGCCA
ATACTTCAAGACCATTGAAGAGCTCCGGGACAAGATCATGGCCACCACCATCGACAACTCCCGGGTCATCCTGGA
GATCGACAATGCCAGGCTGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGGGCGT
TGAGGCTGACATCAACGGCTTGCGCCGAGTCCTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGAT
CGAGGGCCTGAATGAGGAGCTAGCCTACCTGAAGAAGAACCACGAAGAGGAGATGAAGGAGTTCAGCAGCCAGCT
GGCCGGCCAGGTCAATGTGGAGATGGACGCAGCACCGGGTGTGGACCTGACCCGTGTGCTGGCAGAGATGAGGGA
GCAGTACGAGGCCATGGCGGAGAAGAACCGCCGGGATGTCGAGGCCTGGTTCTTCAGCAAGACTGAGGAGCTGAA
CAAAGAGGTGGCCTCCAACACAGAAATGATCCAGACCAGCAAGACGGAGATCACAGACCTGAGACGCACGATGCA
GGAGCTGGAGATCGAGCTGCAGTCCCAGCTCAGCATGAAAGCTGGGCTGGAGAACTCACTGGCCGAGACAGAGTG
CCGCTATGCCACGCAGCTGCAGCAGATCCAGGGGCTCATTGGTGGCCTGGAGGCCCAGCTGAGTGAGCTCCGATG
CGAGATGGAGGCTCAGAACCAGGAGTACAAGATGCTGCTTGACATAAAGACACGGCTGGAGCAGGAGATCGCTAC
TTACCGCAGCCTGCTCGAGGGCCAGGATGCCAAGATGGCTGGCATTGCCATCAGGGAAGCCTCTTCAGGAGGTGG
TGGTAGCAGCAGCAATTTCCACATCAATGTAGAAGAGTCAGTGGATGGACAGGTGGTTTCTTCCCACAAGAGAGA
AATC**TAA**GTGTCTATTGCAGGAGAAACGTCCCTTGCCACTCCCCACTCTCATCAGGCCAAGTGGAGGACTGGCCA
GAGGGCCTGCACATGCAAACTCCAGTCCCTGCCTTCAGAGAGCTGAAAAGGGTCCCTCGGTCTTTTATTTCAGGG
CTTTGCATGCGCTCTATTCCCCCTCTGCCTCTCCCCACCTTCTTTGGAGCAAGGAGATGCAGCTGTATTGTGTAA
CAAGCTCATTTGTACAGTGTCTGTTCATGTAATAAAGAATTACTTTTCCTTTTGCAAAT

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FIGURE 222

GGCCAAGCAAGCTTCTATCTGCACCTGCTCTCAATCCTGCTCTCACCATGAGCCTCCGCCTGCAGAGCTCCTCTG
CCAGCTATGGAGGTGGTTTCGGGGGTGGCTCTTGCCAGCTGGGAGGAGGCCGTGGTGTCTCTACCTGTTCAACTC
GGTTTGTGTCCGGGGGATCAGCTGGGGGCTATGGAGGCGGCGTGAGCTGTGGTTTTGGTGGAGGGGCTGGTAGTG
GCTTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTTTGGTGGGGGTT
TTGCTGGTGGCTTTGTTGACTTTGGTGCTTGTGATGGCGGCCTCCTCACTGGCAATGAGAAGATCACCATGCAGA
ACCTCAACGACCGCCTGGCTTCCTACCTGGAGAAGGTGCGCGCCCTGGAGGAGGCCAACGCTGACCTGGAGGTGA
AGATCCGTGACTGGCACCTGAAGCAGAGCCCAGCTAGCCCTGAGCGGGACTACAGCCCCTACTACAAGACCATTG
AAGAGCTCCGGGACAAGATCCTGACCGCCACCATTGAAAACAACCGGGTCATCCTGGAGATTGACAATGCCAGGC
TGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGAGCGTGGAGGCCGACATCAACG
GCCTGCGCCGGGTGCTGGATGAGCTCACTCTGTCTAAGACTGACCTGGAGATGCAGATCGAGAGCCTGAATGAAG
AGCTAGCCTACATGAAGAAGAACCATGAAGAGGAGATGAAGGAATTTAGCAACCAGGTGGTCGGCCAGGTCAACG
TGGAGATGGATGCCACCCCAGGCATTGACCTGACCCGCGTGCTGGCAGAGATGAGGGAGCAGTACGAGGCCATGG
CAGAGAGGAACCGCCGGGATGCTGAGGAATGGTTCCACACCAAGAGTGCAGAGCTGAACAAGGAGGTGTCTACCA
ACACTGCCATGATTCAGACCAGCAAGACAGAGATCACGGAGCTCAGGCGCACGCTCCAAGGCCTGGAGATTGAGC
TGCAGTCCCAGCTGAGCATGAAAGCGGGGCTGGAGAACACGGTGGCAGAGACGGAGTGCCGCTATGCCCTGCAGC
TGCAGCAGATCCAGGGACTCATCAGCAGCATCGAGGCCCAGCTGAGCGAGCTCCGCAGTGAGATGGAGTGCCAGA
ACCAAGAGTACAAGATGCTGCTGGACATCAAGACACGTCTGGAGCAGGAGATCGCCACCTACCGCAGCCTGCTCG
AGGGCCAGGACGCCAAGAAGCGTCAGCCCCCGTAGCACCTCTGTTACCACGACTTCTAGTGCCTCTGTTACCACC
ACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCGTAGGCCTTAAATCTGCCTGGCGTCCCCTCCCTCTGTC
TTCAGCACCCAGAGGAGGAGAGAGCCGGCAGTTCCCTGCAGGAGAGAGGAGGGGCTGCTGGACCCAAGGCTCAGT
CCCTCTGCTCTCAGGACCCCCTGTCCTGACTCTCTCCTGATGGTGGGCCCTCTGTGCTCTTCTCTTCCGGTCGGA
TCTCTCTCCTCTCTGACCTGGATACGCTTTGGTTTCTCAACTTCTCTACCCCAAAGAAAAGATTATTCAATAAAG
TTTCCTGCCTTTCTGCAAACATA

FIGURE 223

GAGAATTTAGACTCTGTCTTCAGCCAGGCACTCCCTCCCTCCCTCCCAGCACTATGCCCTACAACTTCTGCCTGC
CCAGCCTGAGCTGCCGCACCAGCTGCTCCTCCCGGCCCTGCGTGCCCCCCAGCTGCCACAGCTGCACCCTGCCCG
GGGCCTGCAACATCCCCGCCAATGTGAGCAACTGCAACTGGTTCTGCGAGGGCTCCTTCAATGGTAGCGAGAAGG
AGACTATGCAGTTCCTGAACGACCGCCTGGCCAGCTACCTGGAGAAAGTGCGTCAGCTGGAGCGGGACAACGCGG
AGCTGGAGAACCTCATCCGGGAGCGGTCTCAGCAGCAGGAGCCCTTGCTGTGCCCCAGTTACCAGTCCTATTTTA
AGACCATTGAGGAGCTCCAGCAGAAGATCCTGTGTACCAAGTCTGAGAATGCCAGGCTTGTGGTGCAGATCGACA
ACGCCAAGCTGGCTGCGGATGATTTCAGAACCAAGTACCAGACCGAGCTGTCCCTGCGGCAGCTGGTGGAGTCGG
ACATCAACGGTCTGCGCAGGATCCTGGATGAGCTGACCCTGTGCAAGTCCGACCTGGAGGCCCAGGTGGAGTCCC
TGAAGGAGGAGCTGCTCTGCCTCAAGAGCAACCATGAGCAGGAGGTCAATACCCTGCGCTGCCAGCTTGGAGACC
GCCTCAATGTGGAGGTGGATGCTGCTCCCACTGTGGACCTGAATCGGGTGCTGAACGAGACCAGGAGTCAGTATG
AGGCCCTGGTGGAAACCAACCGCAGGGAAGTGGAGCAATGGTTCACCACGCAGACCGAGGAGCTGAACAAGCAGG
TGGTATCCAGCTCAGAGCAGCTGCAGTCCTACCAGGCGGAGATCATCGAGCTGAGACGCACAGTCAACGCCCTGG
AGATCGAGCTGCAGGCCCAGCACAACCTGCGAGACTCTCTGGAAAACACGCTGACAGAGAGTGAGGCCCGCTACA
GCTCCCAGCTGTCCCAGGTGCAGAGCCTGATCACCAACGTGGAGTCCCAGCTGGCGGAGATCCGCAGTGACCTGG
AGCGGCAGAACCAGGAGTACCAGGTGCTGCTGGATGTGCGTGCCCGGCTGGAGTGTGAGATCAACACATACCGGA
GCCTGCTGGAGAGCGAGGACTGCAATCTGCCCAGCAATCCCTGTGCCACGACCAACGCGTGCAGCAAGCCCATCG
GACCCTGTCTCTCCAATCCCTGTACCTCTTGTGTCCCTCCTGCCCCCTGCACACCCTGTGCCCCACGCCCCCGCT
GTGGGCCCTGCAATTCCTTCGTGCGCTAGAACCTAGGGAATGCCAGAGGAGCAAGGATGCAGGGCCCAGGACTCC
AGAGCTGTGACCTGGCTCTGGTTCAACAAAAGGGGCCTGAAAACATCATTTGCATGGCTGGAGTTGCCCGCGTAA
GGCAGCCAAGAAACTCACCCAAAGCCTGTAGCCTCCCCAACTACTCCAGACTGTCCTGCTCACCCTTTCCTTCCT
GGGGGTCTGTTCCTTCCTATGCTCACCCAGAGAACTCTCTGATGTGCCAGTGGGCCTCCCTTTTAACCTCCTAAT
AAATATCATTTCCTTGGCAAA

FIGURE 224

ACCCGAGCACCTTCTCTTCACTCAGCCAACTGCTCGCTCGCTCACCTCCCTCCTCTGCACC**ATG**ACCACCTGCAG
CCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGGGGCGGCATCGGGGGCGGCTCCAGCCG
CATCTCCTCCGTCCTGGCCGGAGGGTCCTGCCGCGCCCCCAGCACCTACGGGGGCGGCCTGTCTGTCTCATCCTC
CCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTT
TGGTAGTGGCTTTGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTGGGTGGTGGCTTTGGTGGTGGCTTTGC
TGGTGGTGATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCT
GGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGGTACCAGAGGCAGCG
GCCTGCTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCAC
AGTGGACAATGCCAATGTCCTTCTGCAGATTGACAATGCCCGTCTGGCCGCGGATGACTTCCGCACCAAGTATGA
GACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGCCTGCGCAGGGTGCTGGACGAACTGACCCT
GGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTGAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGA
GGAGATGAATGCCCTGAGAGGCCAGGTGGGTGGAGATGTCAATGTGGAGATGGACGCTGCACCTGGCGTGGACCT
GAGCCGCATTCTGAACGAGATGCGTGACCAGTATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGAATG
GTTCTTCACCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCAACAGCGAGCTGGTGCAGAGCGGCAAGAGCGA
GATCTCGGAGCTCCGGCGCACCATGCAGAACCTGGAGATTGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCT
GGAGAACAGCCTGGAGGAGACCAAAGGTCGCTACTGCATGCAGCTGGCCCAGATCCAGGAGATGATTGGCAGCGT
GGAGGAGCAGCTGGCCCAGCTCCGCTGCGAGATGGAGCAGCAGAACCAGGAGTACAAGATCCTGCTGGACGTGAA
GACGCGGCTGGAGCAGGAGATCGCCACCTACCGCCGCCTGCTGGAGGGCGAGGACGCCCACCTCTCCTCCTCCCA
GTTCTCCTCTGGATCGCAGTCATCCAGAGATGTGACCTCCTCCAGCCGCCAAATCCGCACCAAGGTCATGGATGT
GCACGATGGCAAGGTGGTGTCCACCCACGAGCAGGTCCTTCGCACCAAGAAC**TGA**GGCTGCCCAGCCCCGCTCAG
GCCTAGGAGGCCCCCCGTGTGGACACAGATCCCACTGGAAGATCCCCTCTCCTGCCCAAGCACTTCACAGCTGGA
CCCTGCTTCACCCTCACCCCCTCCTGGCAATCAATACAGCTTCATTATCTGAGTTGCAT

FIGURE 225A

AGGCCTCCTCGCTGGGGAGGCAGAGTCCTCGCGTGGTCTCCTGCCTCGAGCACAGCCTGTGCCCAGGGGAGCCGG
GCTTGCAGACAACAGCAGTGGTGTCCATGGGCTCTGGAGACCATCAGTTCAACCTCGCAGAGATCCTGTCACAGA
ACTACAGTGTTAGGGGGGAGTGCGAGGAGGCCTCGAGGTGCCCAGACAAGCCCAAGGAGGAGCTGGAGAAGGACT
TCATCTCCCAGAGCAACGACATGCCCTTTGATGAGCTGCTTGCGCTCTATGGCTACGAGGCGTCAGACCCCATTT
CAGACCGGGAGAGTGAGGGTGGTGACGTGGCCCCGAACCTCCCAGACATGACCCTGGACAAAGAACAAATAGCGA
AGGATTTGCTTTCAGGGGAAGAAGAGGAAGAGACGCAATCATCTGCTGACGACCTCACCCCGTCCGTGACCTCCC
ACGAGGCCTCCGACCTCTTCCCTAACCGGAGTGGATCTCGTTTCCTGGCTGATGAAGACAGAGAGCCTGGCTCTT
CTGCCTCCTCCGACACCGAGGAGGACTCTCTTCCTGCCAACAAATGTAAGAAGGAGATCATGGTGGGACCTCAGT
TCCAAGCTGACCTCAGCAACCTGCACTTGAACCGGCACTGTGAGAAGATCTACGAGAACGAAGACCAGCTGCTCT
GGGACCCCAGCGTCCTCCCTGAGAGGGAGGTGGAGGAGTTCCTGTACAGGGCGGTGAAGCGGCGTTGGCACGAGA
TGGCCGGGCCTCAGCTCCCAGAGGGAGAAGCCGTGAAAGACAGTGAGCAGGCGCTGTACGAGTTGGTGAAATGCA
ACTTCAATGTGGAGGAGGCCCTGCGAAGGCTGCGGTTCAACGTGAAGGTGATCCGAGATGGGCTCTGTGCTTGGA
GTGAAGAGGAGTGCAGGAACTTTGAGCACGGCTTCCGTGTGCATGGAAAGAACTTTCACCTGATCCAGGCCAACA
AGGTGCGCACACGGTCAGTGGGCGAGTGTGTCGAGTACTACTACCTGTGGAAGAAGTCGGAGCGCTACGACTACT
TCGCCCAGCAGACGCGGCTGGGCCGGAGGAAGTACGTCCCGTCCGGAACCACGGACGCAGACCAGGACCTGGATG
GCAGCGACCCCGATGGCCCCGGCCGTCCGCGCCCGGAGCAAGACACCCTGACTGGGATGCGCACAGATCCACTGA
GCGTGGATGGCACGGCCGGTGGTCTCGATGAGCCCGGAGTGGCCTCTGATGGACTCCCGTCCTCGGAGCCAGGGC
CGTGTTCCTTCCAGCAGCTGGATGAGTCCCCCGCTGTACCCCTGTCCCATCGGCCCCCAGCCCTGGCCGACCCAG
CCTCATACCAGCCAGCTGTCACTGCTCCGGAGCCAGACGCCAGCCCAAGGCTGGCCGTGGACTTCGCCCTGCCCA
AGGAGCTGCCCCTCATCTCCAGCCATGTGGACCTCAGCGGGGATCCGGAGGAGACTGTGGCCCCAGCACAGGTGG
CTTTGTCGGTCACCGAGTTTGGACTCATCGGCATTGGGGACGTGAACCCCTTCCTGGCCGCCCACCCCACGTGCC
CGGCCCCCGGGCTACACTCGGAGCCCCTGTCACACTGTAACGTGATGACCTGCTGACTCCTGGCCGCGGGCGGCG
TATGCGGCCCAGACTGGACTTAGCGCTGCCGCTGGGCCCGCCTCTGTCAGTCTTCCTGACCCCTTCCCCACCCCC
CGGGCCTTGGGGTAGCACCTCCTTCTGCTTCAGAACACGTCAGGACTGGGGTGAGGTGGCTGGGCCGTGAGCCCT
TGCCCCTGTCCACACAGAATGGACCCACGGCCCCACCCAGCGCCGTCAGCGCCCGGCACTGCCACCCGGGTCCGG
GCCGCTGCCTGCACGTGGGATCCGTCGGGCAGCCGGGGACAGAAGAGACCCCGCCGTTGGGACGCAGGGCAGAGC
CGGCCACCTAGTCCCTTCCAGCCAGCAGAGGCGAGGGAAGGCGTCACTGCCCCGGCGGGGAGACGGGCAGGACGC
CCTGCCCCGCACCAGCAGCCTCCGCCGGGGCGCCCTCAGCTCCCTGCTTGGCTCTGTCTCTCCACACCCGGCAGG
GCCGCGGGCTGCCCCAGCCCTGGGGGTCGTGGGCAGCTGCTACTCAGTGCCAACCCCGTGGGGCACAGAGCCATA
TACCTCGCTGTCCGGCCCCCACCCCAGCCTCGCCTTCCCACCCCATCGTCTCCACTTCAGGAAAAGCCGCACTTT
ACACCCCCACCTGCCTCTTCCCCCTCCATCCCTGCTCCCCGATCCTGAGCGGTTGGGGTGGGGTCCCTCAGCAAC
CCCAGGCGTGGGTTTGAGGAGACAGGTGATTTACATCCCCTTTGCTGTCCTCCCCCGGTACCAAGGCAGGGAGCC
TCCGGAGGAGCCGGCCCTGCTGGCCACGCAGGGGCCAGACTCCAGCCTGTTTCCCCAGCCCTGCAGGTCTTCCTT
CTGTGGGAAGCTTCCTAGCAAGATGGCTTGGAGTCCTGGTCCCCCTCCTCCCTGGCCCTCTCGTTCGTTTCTGTT
TCTGTTTACACGTTGGAGTGGGGTCCTCCGTGGGCGGCGGCGCGCCCTGCCCCGGGTGTCGTCCGGCCTCTTGTG
CTCGAGCCCCTTTCCGAGTTGGACTCGACCATCCCTCACCCCACCAAGGACCACACTGTGAAGTGATAACTGCCT
TGAACCCCCCTTTGCTGTTTTATTTATTAAACTTGATTTGAAGCCCGGGGTGCCTTGTGGTGGATCGGGTGGGGG
CTGGGGCGGCAGGTGTCCTCGTCATCTCACTTGGGGGCCTGCATGTCTCTTGGAGGGTCCAGGATAAGTCGTGAG
CAACACGGGCGAGGGGGTGCACCGGGGGCATGACGTGGTGGGCTACGTATTGTTCACGTCAGTAAGGGAATTGTG
GCCACGATGACGGGATGTGAGGAGGGCCCACGTCTGGGTAGAGGTGGTCGGGGCAGCCTCCTAGAAGTGATATTT
AAGCTGAAACATGAAGGAGAATGGGCCTCCTTTGCTGAAAGTTTGCCGAGAGGCCTGGCAGGCGTGACAGCAGAT
GCAGAGGACAGAGGCCTGGGTCTCCAGGAGAAGCTGAGGGCACAGAGGGCAGAGGTTGGGCGGGGTGGGGACAGT
AGGTCATGAGGCCAAGTTTTGTTCTTGGTGTGGAAGCCACTTTAGGTCTGCATTGTTTTTTTGTTTTGTTTTGCT
TTTTTTTTTTAGACAGGGTCTCACACTGTCGCCAGGCTGGAGTGCAGTGGTGCGATCTCGGCTCACTGCAACCTC
CGCCTCCTGAGTTCACGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCGCCCGCCACCTGGGA
TTACGGGCGCCCGCCACCATGCCCAGCTACTTTTTATATTTTTTGTAGAGATGGGGTTTCTCCTTATTGCCCAGG
ATGGTCTCTATCTCTTGACCTTGTGTTCTCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGACATC
GCGCCCGGCTGAGGTCTGCATTGTTAATAGCGCCCTGCAGGGACGGTGCAGGCTGGTTGGGTTGCATATTGTCCA

FIGURE 225B

CATCAGTGAGGGAAATGTGGGCATGCATGGTGATGGGATATGGGGAGGGCCGGCCCCCAGCTGGGAGGTGACTGT
GGCTTGGCCTCAGGGACTATTGGTGAAGGACCAGGACCACTTGCATGATGGGTGTGGGAGAGTCAGGGGTCTTGC
TGGTGAGCCTGTGCCAGGAGCTGTGAGAACCAGGGCCAGCCACTCGGCAACCTGGGTGTTTGGGGATGGGCATAG
AGGAGTTTTCATTGGAGCGCCGCAGCCTGCTGACGTTTTCTTCAGATGTGCAAGGTCTTCTGTCTTCCAGCTTGC
CCTGCCTCCAGCAGGAAATCTTCAGTCCTCTCTTGGTTTTTTTCCTCCAACTGCTTTGAAGATTTTTCAGTACCA
CTGGTTTTGAGCAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGGGTGTGCTTTGGTGTATTG
AGGAGTCTGATGAGAATGTGCTTTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGTCTGATG
AGGATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTT
GGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGACTGATGAGAATGTGCTTTGGTGTATTGAGG
TGTCTGATGAGGGTGTGCTTTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATG
AGGATGTGCTTTGGTGTATTGAGTCCGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTT
GGTGTATTGAGTCTGATGAGAATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGT
CTGATGAGAATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATG
TGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTTGGTGTA
TTGAGTCTGATGAGAATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATG
AGAATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGATGAGGATGTGCTTTGGTGTA
TTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGTCTGATGAGAATGTGCTTTGGTGTATTGAGTCTGATG
AGAATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTT
GGTGTATTGAGGTGTCTGATGAGGGTGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTG
AGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGTCTGATGAGG
ATGTGCTTTGGTGTATTGAGTCTGAAGAGGATGTGCTGTGGTGTATTGAGGTGTCTGATGAGGATGTACTTTGGT
GTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGT
CTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTTGGTGTATTGAGGAGTCTGATGAGG
ATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTT
GGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGT
CTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTTGGTGTATTGAGGAGTCTGATGAGG
GTGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTGTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGT
GTACTGAGGTGTCTGATGAGGATGTACTTTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGG
AGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGTCTGATGAGG
ATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGACGAGGATGTGCTTTGGTGTATTGAGG
TGTCTGATGAGGATGTGCTTTGGTGTAC

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FIGURE 226

CCCCGGGGAACCCGTTTCTCCCAGCTCTGGTCCCGGCAGGAGTAGCTGCTTGCCCCCTGCCTGCCCAGCACTCCT
GTCCCTGGCCTGCAGGACCCTTTGAGGATGCCCTGAAGTTGCATGAGTGCTCAGTGGCGGCAGGCGTGACAGCAG
CCCCTCTTCCCTTGGAGGACCAGTGGCCCAGCCCCCCTACCCGCCGGGCCCCTGTGGCCCCCACGGAGGAACAGC
TGCGTCAGGAGCCCTGGTACCACGGCCGGATGAGCCGCCGGGCGGCAGAGAGGATGCTTCGAGCTGACGGGGACT
TCCTTGTGCGAGACAGCGTCACCAACCCCGGGCAGTATGTCCTCACCGGCATGCACGCCGGGCAGCCCAAGCACC
TGCTGCTCGTGGACCCCGAGGGCGTGGTACGGACGAAGGACGTGCTGTTTGAGAGCATCAGCCACCTGATCGACC
ACCACCTGCAGAACGGGCAGCCCATCGTGGCCGCCGAGAGTGAGCTGCACCTGCGTGGCGTGGTCTCACGGGAGC
CCTGAGCCAGGTGACCGTTCTCAGCCCTGGCTCCTGCCTGTTCTCAGCCCCGGCTCCTGCCTGTCATGGCCTTGG
GGCTCTCAGCCCTCCTCCTGGATCCTGGTCAGGCCGAACCACCGCTGCCTCTCCTTCCTCCGC**ATG**AGCCTCTGG
CATGGTCCTTCCTCCAGCTGGCCCCGGGCTGGGCAGAGCCTCCTCCTGCCGGGGCCCCTGCCCACCCCCTCCTTT
GCCTGGAGTGAGGGTGTTCATACCAAAGACGGAACCATTTCGCCTTTAAAGAAAATATATCCAGAAGCAGCCGCT
GCCTCGGAGCCCTGGCCCTTGGGTCCCCCTCTCGCCTGGCTGGTTCGGTCTAACGCCCCGGAGAGTCAGGGCTCC
CAGGACCCTGGGGAGGAGGCGGATTCCGGGCCTGGCTGGGCTTCCTCTTCCCACCTGAGGACTGGGTGCACAGTT
GTCTTTGAGGGGGGACGCTTAAGGTGCTTTGGGGTTCTCAGGCCAGGATACATGCTGGCGCTGAAGTGCAGGCAG
CCT**TGA**GGTCACCTGGGATCTCGGGGTAGCCAGGCTGCTCCAAGACAGTGGATATCGAGGCAGTCGTGAGGCCCC
TACTCCACCTGGGAGCAGGGGAAGGACGTGGTTGCCTGGCCTGGGCTGCGCCCAGCAGCTTCCCCCCAGTCCTGC
CCTCCCAGCTGTCGACCCAGATGGGATGTTCGGATCGGTTTGTAATTAAACCTGGGAATGGCCACAAG

FIGURE 227

GCGGTTTCCCGCCGCGGGTGAATGAGTCCGACTGCGCTGCCGCCGCCGCCGCCGCCCGCATCGAAGCTCCGGCCG
CGTCCCCCGCGCCAGCCCCGGGAGCCTGCGCGCCGAGACCCCTGCGTGTCTGCGAACAGACCTCCGGCCTCGGGC
CATCACCCCGGGCAGACGCTGCAGCCCCTGTCCGGGCCTCTTGCCTGCCGCCCCCATGAGAAAAACCAACATGTG
GTTCTTGGAGCGGCTTCGGGGGTCTGGGGAAAACGGTGCTGCCCGGGGCGTGGGGAGTGAGGCGGGGGACAAGGC
CTCCAAGGGGCCCCTGTACAGCAATGTGTTGACGCCCGACAAGATCCCCGACTTTTTCATCCCCCCCAAGCTGCC
CTCGGGCCCCGCGGAGGGCGAGGGACAGGCCGCGCTGGGCCCCTCCACGTCGGAACAGAACCTGGCCTCTGCGGC
CCCCCGCCAGACCCCACGGAGCCCCCGGCTGCCTGCCAAGCTGGCAGCCGAGAGCAAGAGCCTGCTGAAGGCAGC
CACCCGGCACGTGATCCAGATCGAGAGTGCCGAGGACTGGCTGTCCGAGGAGGCCACTGACGCCGACCCCCAGGC
CCAGGGTGCCATGTCCCTGCCCTCGGTGCCCAAGGCCCAGACGTCCTACGGCTTCGCCATGCTGGCTGAGAGCCC
CCACACGAGGCGCAAGGAGTCTCTGTTCCACAGTGAGCACGGGGCTCTGGCCCAGGTGGGCTCCCCAGGGGCCGG
GCGCCGCCGGGCAGCTGCCAAGGCCAACGGGGGTGATGGGGGCCCCAGGGAGGCTGGCGGGGCCCTCATGAGCCC
CGGCCGCTACTTCAGTGGCGGGGAGAGCGACACAGGGTCCTCGGCCGAGTCCTCCCCCTTCGGGTCCCCTCTGCT
GTCCCGCTCCGTGTCTCTGCTCAAAGGTTTCGCCCAGGACAGCCAGGCCAAGGTGAGCCAGCTCCGGCACTCCGT
GGGCCGCCACGGCTCCCTGTCTGCGGACGACAGCACCCCGGACGCCAGCCCCGGGAGCCGGCGCCGCCTGACCCG
CCGGGCACCCCCGGAACCTGGCCCCGAGTCGGGCCAGGCGCGTGGGGAGCACACGGTCCACGTGGGCCCTCGGGG
CAGCGTGCGGCTGCTGGCCGAGTACGAGGCCGGCCAGGCCCGCCTGCGGGTGCACCTGCTGGCCGCCGAGGGCCT
CTACGACCGCCTGTGCGACGCCCGCAGCATCAACTGCTGCGTGGGCCTGTGCCTGGTGCCGGGCAAGCTGCAGAA
GCAGCGCAGCACCATCGTGAAGAACAGCCGCCGCCCCGTCTTCAACGAGGATTTCTTCTTCGACGGCCTGGGGCC
CGCCAGCGTCCGGAAACTGGCCCTCAGGATCAAGGTGGTGAACAAGGGCAGCAGCCTCAAGCGGGACACGCTGCT
CGGGGAGAAGGAGCTGCCCCTGACCTCCCTGCTCCCCTTCCTGTAGAGCGGGGACCTGCTCGCTGTCCGCTCGGG
TGCAGAGGGCAGACCCCGGTCTCTCCTCCACACCGGGTGCTGGCGGGCGGGTCCGCTGGCTTGGGCTGGGGCTGG
CCGGGGAGGGGCTCACACTCAGGCTGGGCTGGGCGCTGATGCTGTAGCTGACGCAGGGTTTCCTGGGTCACCCGA
TGCTGACTGGAGTATTATTTTTCATGAATTAATTTCTCCTTTGGAGGAGGAGGAGGAGGAGGAGAGGGGCCTCGG
GGGAAGAGAAGGGGCCACTTCGCGGGGCAGAGGGTCCCCCTTTGCCCCTCCACACTGCCTCGCGCCTTTCACGCA
GAGTTCTAGAAGGAGGTTCTCAGGGGTTCAGGAATCCGTGCATGTGGCCAGGGCGGGGCCGTGGACAGGGAGGTG
ACAAGTCTTGGAGCCCACAGTCTCCTTCACTGCACGTGTGTCTTCCTCCCCCACAGCCTGCCGCCATCCAGTTCC
CACCCCGCGGAGAGCAGGGCCTCGCGGCCACACCAGGCCCAGGCTCTGCCCGGGACGCCCCCTCCCAGGGGTCAG
GCTTGGCTCTGGGAGACCCCAGCTTCCCAGGCTCCGGTGGGGAGTGGGGCCAGGCGAGGGTGCCCTGACGAGGGT
GGGCGCGGAGGGAGCAGCCGCTGCCACAGTCGGAGCAGAGGAGGTCTTGGCAGAGGTCCGCGGGGAGGAGACGGC
TCTCCTGGCCTGTTTTCCTCCAACACTGTCGCCGCTGGCTTTTTGGGTACAGGCCCGTCTGGCCATTTCTGCTGT
GGCGCCGGAGGGTCTTGCTCAGAGATGCCCAGAGAGCAGCCCTATGGCCCATCCGTCCTCGCTGGGGGCTGCCAC
CCCGTCGCCCTTTTGTCCAGCGTCTGCAGCTGGGAGCGACACGCAGTGATTGACGGCCGTGGCTTTGACGCCACG
TGTGTAAATAGGCTGTGGCTACGGTGGGTGGGTCGGAGCCCAGGAGGCAGCTGGGGGGACCTGGCTATGGCCTTT
CCTGCTGTTAGGTGGCTGCAAGGCTTCCATTGTGTGGTTATGTGGGTCCTTGAATGATTTTGGGGAGGTTTCCAG
CTCAGAATGATGCAGAAATGATAAGACTCAAAGCAGGGGCCAGGCCAGGCCAGTGCCTTCGCCTCTCCCGGCTGC
TGGTGGGCACGGAGGAACCAGGGCACATCTGTGGTACCCAGGGACGTCCCTTGTCAGCCCGTTTGCCACACATTG
TTCCTCTTGTCCAGGGGAGGGTGGAGGAGCTGCTTCCCAGGACTGGAGGAGCAGCTGGGCCCCTGCTGCACGTCC
GGTGGGACACACCTGTGAGCCCCGCCTTCTCTGATGCTCACCCCTCCCAGGCCCTGTTCTCCCTGGGGTCCCCCG
TTTAGTAGCCCCCCTGCACTCTTTGATATCTTAGTGTCTGAGGTTGACTGTGGGTAAATCTTTAAGACACTCCCC
AGCTGTGTTTGTTTATAAATGCTGTTTATAGTGCAATAAAGGTGTTTCGGG

FIGURE 228

GGTCCGGGGACGCCGCCGCCGCCGCCGAGTGGATCCGGAAGGGCAGCTTCATCCACAAACCCGCGCACGGCTGGC
TACACCCCGACGCCAGGGTCCTGGGGCCCGGGGTCTCCTACGTCGTGCGGTACATGGGCTGCATCGAGGTTCTCC
GCTCTATGCGCTCCCTGGACTTTAACACGCGCACGCAGGTGACCAGCTCCTGCCACCACTCAGGCTGCAGACAGG
ATCTCGACACGGACCCCGCGTCAGGCTCAGGGCCTCCTGCTCGCTGCTCCAACCCCCACATCTG**ATG**CCGAGCCT
TCCTTGTGGGCCGAGGCCAGGGACACACTGGTCCCTGGGAAAGAGGGTGGTAGAGGGGCCAGAGCTGGGGGCCGG
GCCTCTGCCGGATGCAAGGACGCACGTGGAGTGGGCTGGTGCCCAAGCTGCACCTGTCCTGTGGGGCACTCCTCC
CCCAGGGAAGCCATCAACCGGCTCCATGAGGCCGTGCCTGGCGTCCGGGGATCCTGGAAGAAAAAGGCCCCCAAC
AAGGCCCTGGCGTCCGTCCTGGGCAAGAGCAACCTTCGCTTTGCCGGCA**TGA**GCATCTCCATCCACATCTCCACT
GATGGCCTCAGCCTCTCCGTGCCTGCCACGCGCCAGGTCATCGCCAACCACCACATGCCGTCCATCTCCTTCGCG
TCAGGCGGAGACACGGACATGACGGATTACGTGGCCTACGTCGCCAAGGACCCCATCAACCAGAGAGCCTGCCAC
ATCCTGGAGTGCTGTGAGGGCCTGGCACAGAGCATCATCAGCACCGTGGGCCAAGCTTTCGAGCTGCGCTTCAAG
CAGTACCTGCACAGCCCGCCCAAGGTGGCGCTGCCCCCAGAAAGGCTGGCAGGGCCGGAGGAGTCGGCCTGGGGG
GACGAGGAGGACTCTTTGGAGCACAATTACTACAACAGCATCCCGGGGAAGGAGCCGCCGCTGGGCGGG

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FIGURE 229

GTACCACCGCCGGCCGGTTTCACGGACAGCGGCCGCCAGTCGGTATCCCGGGCGGCGGGGGCGGCCGAGAGCGAG
GAGGACTTCCTGCGGCAGGTCGGCGTGACGGAA**ATG**CTACGTGCGGCCCTGCTGAAGGTGCTGGAGGCGCGGCCC
GAGGAGCCGATCGCCTTCCTGGCTCACTACTTCGAGAACATGGGCCTGCGCTCGCCTGTAAACGGCGGCGCCGGG
GAGCCCCCGGGCCAGCTCCTGCTGCAGCAGCAGCGCCTGGGCCGCGCGCTATGGCACCTTCGCCTGGCCCACCAC
TCCCAGAGGGCCGCCTTCAACAACAACGTGAGCGTGGCCTACGAGTGCCTGAGCGCCGGCGGGCGCAGGAAGAGG
CCGGGGCTGGACGGGCGCACCTACAGCGAGCTGCTCAGGCGCATCTGCCGGGACGGCCAAGCCCCCGAGGAGGTG
GTGGCGCCGCTGCTGCGCAAGGTGCAGTGCCGTGACCACGAGGCGGTGCCGCTGAGCGTCTTCCGCGCGGGCACA
CTCACCTGCTTCGTGCTGCTGGAGTTCGTGGCGCGCGCCGGCGCGCTCTTCCAGCTGCTGGAGGACTCGGCCGCC
GCCGTGGCCGACCGCCGCGTGGGCCAGGCCGTGCTGGACACCCTGGAGGGCGCGCTGCAGGCCAGCGACGCCGCC
GCGCCCGCGCGCTTCCTGGAGGCCGGCTCGCGCTTGGGGCCCGACAGCCTGGCGCTGGCGCTGGACCGCGCCGTC
GGGGGGCGGCGGCCCAGCGCGCCCATGACCCGCGAGGAGTTTCTGGAGAGGGCCGCCGCGCTCTTCATCGCGAAG
GTCAAGCCGGTGGGC**TGA**GGCCCGTGGGCCGCGCGGATCCGGGATCTGCGCTGGGGGGTCCCCGCGTGCGGGGCG
CGCGGAGCCTTCCCTTCGCCCTGGTGAGGCCCTGCCATAACCAGGCGCCCAGCCCTGCGGAGGAGGCCGGGGCTC
CCAGGAAGCGGACGCCCGGTCCCCACACAGCGCCGCGGCCGCCCCTCCACCCCCGCGGGAGCCCCTGCCCCACGC
TAATAAAATGTGTTGCGAGGCTGA

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FIGURE 230

GGCAAGCGCCGGTGGGGCGGCGGCGCCAGAGCTGCTGGAGCGCTCGGGGTCCCCGGGCGGCGGCGGCGGCGCAGA
GGAGGAGGCAGGCGGCGGCCCCGGTGGCTCCCCCCCGGACGGTGCGCGGCCCGGCCCGTCTCGCGAACTCGCGGT
GGTCGCGCGGCCCCGCGCTGCTCCGACCCCGGGCCCCTCCGCCGCCGCC**ATG**GCTCGGCCGCTAGTGCCCAGCTC
GCAGAAGGCGCTGCTGCTGGAGCTCAAGGGGCTGCAGGAAGAGCCGGTCGAGGGATTCCGCGTGACACTGGTGGA
CGAGGGCGATCTATACAACTGGGAGGTGGCCATCTTCGGGCCCCCCAACACCTACTACGAGGGCGGCTACTTCAA
GGCGCGCCTCAAGTTCCCCATCGACTACCCATACTCTCCACCAGCCTTTCGGTTCCTGACCAAGATGTGGCACCC
TAACATCTACGAGACGGGGGACGTGTGTATCTCCATCCTCCACCCGCCGGTGGACGACCCCCAGAGCGGGGAGCT
GCCCTCAGAGAGGTGGAACCCCACGCAGAACGTCAGGACCATTCTCCTGAGTGTGATCTCCCTCCTGAACGAGCC
CAACACCTTCTCGCCCGCAAACGTGGACGCCTCCGTGATGTACAGGAAGTGGAAAGAGAGCAAGGGGAAGGATCG
GGAGTACACAGACATCATCCGGAAGCAGGTCCTGGGGACCAAGGTGGACGCGGAGCGTGACGGCGTGAAGGTGCC
CACCACGCTGGCCGAGTACTGCGTGAAGACCAAGGCGCCGGCGCCCGACGAGGGCTCAGACCTCTTCTACGACGA
CTACTACGAGGACGGCGAGGTGGAGGAGGAGGCCGACAGCTGCTTCGGGGACGATGAGGATGACTCTGGCACGGA
GGAGTCC**TGA**CACCACCAGAATAAACTTGCCGAGTTTACCTCACTAGGGCCGGACCCGTGGCTCCTTAGACGACA
GACTACCTCACGGAGGTTTTGTGCTGGTCCCCGTCTCCTCTGGTTGTTTCGTTTTGGCTTTTTCTCCCTCCCCAT
GTCTGTTCTGGGTTTTCACGTGCTTCAGAGAAGAGGGGCTGCCCCACCGCCACTCACGTCACTCGGGGCTCGGTG
GACGGGCCCAGGGTGGGAGCGGCCGGCCCACCTGTCCCCTCGGGAGGGGAGCTGAGCCCGACTTCTACCGGGGTC
CCCCAGCTTCCGGACTGGCCGCACCCCGGAGGAGCCACGGGGGCGCTGCTGGGAACGTGGGCGGGGGGCCGTTTC
CTGACACTACCAGCCTGGGAGGCCCAGGTGTAGCGGTCCGAGGGGCCCGGTCCTGCCTGTCAGCTCCAGGTCCTG
GAGCCACGTCCAGCACAGAGTGGACGGATTCACCGTGGCCGACTCTTTTCCCTGCTTTGGTTTGTTTGAAATCTA
AATAAAACTACTTTATGAG

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FIGURE 231

GCCGCGGGCGGCGGCGGCAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGGCGGCTGCGCTGTTC
GTGCTGCTGGGATTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAA
GACCTTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTG
AAGGGGGGCGTGGTGCTGAAGGAGGACGCGCTGCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAG
TGGGGAGAGTACTCCTGCGTCTTCCTCCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCTCCCAGA
GTGAAGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTG
CCACCTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGC
AGGTTCTTCGTGAGTTCCTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGCCGACCCCGGC
CAGTACCGGTGCAACGGCACCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTG
GCCGCCCTCTGGCCCTTCCTGGGCATCGTGGCTGAGGTGCTGGTGCTGGTCACCATCATCTTCATCTACGAGAAG
CGCCGGAAGCCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAG
AATGACAAAGGCAAGAACGTCCGCCAGAGGAACTCTTCCTGAGGCAGGTGGCCCGAGGACGCTCCCTGCTCCACG
TCTGCGCCGCCGCCGGAGTCCACTCCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCC
GTAGATTCCCATCATACACTTCCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTCAGGATTCTGTTCCTTAGGT
TTTTTTCCTTCTGAAGTGTTTCACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCCGTCTGTGGCTTTCAGCCTCT
GGGTCTGAGTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCTTGCCCTTTG
TGGAAAGTCACAGGTCACACGAGGGGCCCCGTGTCCTGCCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTT
TGTGCTTTTATGTTTAATTTTATGAGGGCCACGGGTCTGTGTTCGACTCAGCCTCAGGGACGACTCTGACCTCTT
GGCCACAGAGGACTCACTTGCCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTT
GTCTGTGCATCCGGGGGCAGCTCTGGAGGGGGTTTGCTGGGGAACTGGCGCCATCGCCGGGACTCCAGAACCGCA
GAAGCCTCCCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCC
ACCCACCGCCACAATAAAGATCGCCCCCACCTCCACCCTC

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FIGURE 232

CGGGCGGCGGCGGCAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGGCGGCTGCGCTGTTCGTGC
TGCTGGGATTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAAGACC
TTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTGAAGG
GGGGCGTGGTGCTGAAGGAGGACGCGCTGCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAGTGGG
GAGAGTACTCCTGCGTCTTCCTCCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCTCCCAGAGTGA
AGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTGCCAC
CTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGCAGGT
TCTTCGTGAGTTCCTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGCCGACCCCGGCCAGT
ACCGGTGCAACGGCACCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTGGCCG
CCCTCTGGCCCTTCCTGGGCATCGTGGCTGAGGTGCTGGTGCTGGTCACCATCATCTTCATCTACGAGAAGCGCC
GGAAGCCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAGAATG
ACAAAGGCAAGAACGTCCGCCAGAGGAACTCTTCCTGAGGTGGCCCGAGGACGCTCCCTGCTCCACGTCTGCGCC
GCCGCCGGAGTCCACTCCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCCGTAGATTC
CCATCATACACTTCCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTCAGGATTCTGTTCCTTAGGTTTTTTTCC
TTCTGAAGTGTTTCACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCCGTCTGTGGCTTTCAGCCTCTGGGTCTGA
GTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCTTGCCCTTTGTGGAAAGT
CACAGGTCACACGAGGGGCCCCGTGTCCTGCCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTTTGTGCTTT
TATGTTTAATTTTATGAGGGCCACGGGTCTGTGTTCGACTCAGCCTCAGGGACGACTCTGACCTCTTGGCCACAG
AGGACTCACTTGCCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTTGTCTGTGC
ATCCGGGGGCAGCTCTGGAGGGGGTTTGCTGGGGAACTGGCGCCATCGCCGGGACTCCAGAACCGCAGAAGCCTC
CCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCCACCCACCG
CCACAATAAAGATCGCCCCCACCTCCACCCTC

FIGURE 233

CGGCTCCGCTCCGCACTGCCCGGCGCCGCCTCGCCATGGACGCGCGCGGGGGCGGCGGGCGGCCCGGGGAGAGCC
CGGGCGCGACCCCCGCGCCGGGGCCGCCGCCGCCGCCGCCCGCGCCCCCCCAACAGCAGCCGCCGCCGCCGC
CGCCGCCCGCGCCCCCCCCGGGCCCCGGGCCCGCGCCCCCCCAGCACCCGCCCCGGGCCGAGGCGTTGCCCCCGG
AGGCGGCGGATGAGGGCGGCCCGCGGGGCCGGCTCCGCAGCCGCGACAGCTCGTGCGGCCGCCCCGGCACCCCGG
GCGCGGCGAGCACGGCCAAGGGCAGCCCGAACGGCGAGTGCGGGCGCGGCGAGCCGCAGTGCAGCCCCGCGGGGC
CCGAGGGCCCGGCGCGGGGGCCCAAGGTGTCGTTCTCGTGCCGCGGGGCGGCCTCGGGGCCCGCGCCGGGGCCGG
GGCCGGCGGAGGAGGCGGGCAGCGAGGAGGCGGGCCCGGCGGGGGAGCCGCGCGGCAGCCAGGCCAGCTTCATGC
AGCGCCAGTTCGGCGCGCTCCTGCAGCCGGGCGTCAACAAGTTCTCGCTGCGGATGTTCGGCAGCCAGAAGGCCG
TGGAGCGCGAGCAGGAGCGCGTCAAGTCGGCGGGGGCCTGGATCATCCACCCGTACAGCGACTTCAGGTTCTACT
GGGACTTCACCATGCTGCTGTTCATGGTGGGAAACCTCATCATCATCCCAGTGGGCATCACCTTCTTCAAGGATG
AGACCACTGCCCCGTGGATCGTGTTCAACGTGGTCTCGGACACCTTCTTCCTCATGGACCTGGTGTTGAACTTCC
GCACCGGCATTGTGATCGAGGACAACACGGAGATCATCCTGGACCCCGAGAAGATCAAGAAGAAGTATCTGCGCA
CGTGGTTCGTGGTGGACTTCGTGTCCTCCATCCCCGTGGACTACATCTTCCTTATCGTGGAGAAGGGCATTGACT
CCGAGGTCTACAAGACGGCACGCGCCCTGCGCATCGTGCGCTTCACCAAGATCCTCAGCCTCCTGCGGCTGCTGC
GCCTCTCACGCCTGATCCGCTACATCCATCAGTGGGAGGAGATCTTCCACATGACCTATGACCTGGCCAGCGCGG
TGATGAGGATCTGCAATCTCATCAGCATGATGCTGCTGCTCTGCCACTGGGACGGCTGCCTGCAGTTCCTGGTGC
CTATGCTGCAGGACTTCCCGCGCAACTGCTGGGTGTCCATCAATGGCATGGTGAACCACTCGTGGAGTGAACTGT
ACTCCTTCGCACTCTTCAAGGCCATGAGCCACATGCTGTGCATCGGGTACGGCCGGCAGGCGCCCGAGAGCATGA
CGGACATCTGGCTGACCATGCTCAGCATGATTGTGGGTGCCACCTGCTACGCCATGTTCATCGGCCACGCCACTG
CCCTCATCCAGTCGCTGGACTCCTCGCGGCGCCAGTACCAGGAGAAGTACAAGCAGGTGGAGCAGTACATGTCCT
TCCACAAGCTGCCAGCTGACTTCCGCCAGAAGATCCACGACTACTATGAGCACCGTTACCAGGGCAAGATGTTTG
ACGAGGACAGCATCCTGGGCGAGCTCAACGGGCCCCTGCGGGAGGAGATCGTCAACTTCAACTGCCGGAAGCTGG
TGGCCTCCATGCCGCTGTTCGCCAACGCCGACCCCAACTTCGTCACGGCCATGCTGACCAAGCTCAAGTTCGAGG
TCTTCCAGCCGGGTGACTACATCATCCGCGAAGGCACCATCGGGAAGAAGATGTACTTCATCCAGCACGGCGTGG
TCAGCGTGCTCACTAAGGGCAACAAGGAGATGAAGCTGTCCGATGGCTCCTACTTCGGGGAGATCTGCCTGCTCA
CCCGGGGCCGCCGCACGGCGAGCGTGCGGGCTGACACCTACTGCCGCCTCTATTCGCTGAGCGTGGACAACTTCA
ACGAGGTGCTGGAGGAGTACCCCATGATGCGGCGCGCCTTCGAGACGGTGGCCATCGACCGCCTGGACCGCATCG
GCAAGAAGAATTCCATCCTCCTGCACAAGGTGCAGCATGACCTCAACTCGGGCGTATTCAACAACCAGGAGAACG
CCATCATCCAGGAGATCGTCAAGTACGACCGCGAGATGGTGCAGCAGGCCGAGCTGGGTCAGCGCGTGGGCCTCT
TCCCGCCGCCGCCGCCGCCGCCGCAGGTCACCTCGGCCATCGCCACGCTGCAGCAGGCGGCGGCCATGAGCTTCT
GCCCGCAGGTGGCGCGGCCGCTCGTGGGGCCGCTGGCGCTCGGCTCGCCGCGCCTCGTGCGCCGCCCGCCCCCGG
GGCCCGCACCTGCCGCCGCCTCACCCGGGCCCCCGCCCCCCGCCAGCCCCCCGGGCGCGCCCGCCAGCCCCCGGG
CACCGCGGACCTCGCCCTACGGCGGCCTGCCCGCCGCCCCCCTTGCTGGGCCCGCCCTGCCCGCGCGCCGCCTGA
GCCGCGCGTCGCGCCCACTGTCCGCCTCGCAGCCCTCGCTGCCTCACGGCGCCCCCGGCCCCGCGGCCTCCACAC
GCCCGGCCAGCAGCTCCACACCGCGCTTGGGGCCCACGCCCGCTGCCCGGGCCGCCGCGCCCAGCCCGGACCGCA
GGGACTCGGCCTCACCCGGCGCCGCCGGCGGCCTGGACCCCCAGGACTCCGCGCGCTCGCGCCTCTCGTCCAACT
TGTGACCCTCGCCGACCGCCCCGCGGGCCCAGGCGGGCCGGGGGCGGGGCCGTCATCCAGACCAAAGCCATGCCA
TTGCGCTGCCCCGGCCGCCAGTCCGCCCAGAAGCCATAGACGAGACGTAGGTAGCCGTAGTTGGACGGACGGGCA
GGGCCGGCGGGGCAGCCCCCTCCGCGCCCCCGGCCGTCCCCCCTCATCGCCCCGCGCCCACCCCCATCGCCCCTG
CCCCCGGCGGCGGCCTCGCGTGCGAGGGGGCTCCCTTCACCTCGGTGCCTCAGTTCCCCCAGCTGTAAGACAGGG
ACGGGGCGGCCCAGTGGCTGAGAGGAGCCGGCTGTGGAGCCCCGCCCGCCCCCCACCCTCTAGGTGGCCCCCGTC
CGAGGAGGATCGTTTTCTAAGTGCAATACTTGGCCCGCCGGCTTCCCGCTGCCCCCATCGCGCTCACGCAATAAC
CGGCCCGGCCCCCGTCCGCGCGCGTCCCCCGGTGACCTCGGGGAGCAGCACCCCGCCTCCCTCCAGCACTGGCAC
CGAGAGGCAGGCCTGGCTGCGCAGGGCGCGGGGGGGAGGCTGGGGTCCCGCCGCCGTGATGAATGTACTGACGAG
CCGAGGCAGCAGTGCCCCCACCGTGGCCCCCCACGCCCCATTAACCCCCACACCCCCATTCCGCGCAATAAA

FIGURE 234A

AGGCGGCGCGGGCGCATGCGCAGGCGCGGGCCGGTGGGGTGGCCTGGAGCGGCGTGCGTAATGTCGGCACTTTGC
TGGGGCCGCGGAGCGGCGGGGCTCAAACGAGCCCTACGGCCTTGCGGCCGCCCGGGACTCCCCGGCAAAGAAGGG
ACCGCCGGTGGCGTCTGCGGCCCCAGGAGGAGCTCGTCCGCCAGCCCCCAGGAGCAAGACCAAGACCGCAGGAAG
GACTGGGGCCACGTGGAGCTGCTGGAGGTGCTCCAGGCGCGGGTGCGGCAGCTGCAGGCTGAGAGCGTGTCGGAG
GTGGTGGTGAACAGGGTGGATGTGGCGCGGCTCCCAGAATGTGGCAGTGGAGATGGTAGCCTCCAGCCACCCAGG
AAGGTCCAGATGGGGGCCAAGGATGCCACCCCGGTGCCCTGTGGCCGCTGGGCAAAGATACTGGAGAAGGATAAG
CGGACCCAGCAGATGCGTATGCAGCGGTTGAAGGCGAAGCTGCAGATGCCATTCCAGAGCGGGGAGTTCAAGGCG
CTGACCAGGCGCCTGCAGGTGGAGCCCCGGCTCCTGAGCAAGCAGATGGCCGGGTGCCTGGAGGACTGCACGCGC
CAGGCCCCCGAGAGCCCCTGGGAGGAGCAGCTGGCCCGGCTGCTGCAGGAGGCCCCTGGGAAGCTGAGCCTCGAT
GTGGAGCAGGCCCCGTCGGGGCAGCACTCGCAGGCCCAGCTCTCAGGTCAGCAGCAGAGGCTCCTGGCCTTCTTC
AAGTGCTGCCTGCTCACTGACCAGCTGCCCCTCGCCCACCACCTGCTGGTCGTCCACCACGGCCAGCGGCAGAAG
CGGAAGCTGCTCACGCTGGACATGTACAACGCCGTGATGCTTGGCTGGGCGCGGCAGGGTGCCTTCAAGGAGCTG
GTATATGTGTTATTCATGGTGAAGGATGCCGGCTTGACTCCGGACCTGCTGTCCTATGCGGCTGCCCTCCAGTGC
ATGGGGAGGCAGGACCAGGACGCCGGGACCATCGAAAGGTGTCTGGAACAGATGAGCCAGGAGGGGCTGAAGCTG
CAGGCACTCTTCACCGCCGTTCTGCTGTCTGAGGAGGATCGGGCCACTGTTCTGAAGGCCGTGCACAAGGTGAAG
CCCACCTTCAGCCTCCCGCCGCAGCTGCCGCCCCCGGTCAACACCTCCAAGCTGCTCAGGGACGTGTATGCCAAG
GATGGGCGTGTGTCCTACCCGAAGCTGCACCTGCCCTTGAAGACCCTGCAGTGCCTCTTTGAGAAGCAGCTCCAC
ATGGAGCTGGCCAGCAGGGTGTGCGTGGTGTCCGTGGAGAAGCCCACGTTGCCAAGCAAGGAGGTCAAGCACGCG
CGGAAGACCCTGAAGACCCTGCGGGACCAATGGGAGAAAGCACTGTGCCGGGCGCTGCGGGAGACCAAGAACCGC
CTAGAGCGCGAGGTGTACGAGGGCCGGTTCTCACTTTACCCCTTCCTGTGCCTGCTGGACGAGCGCGAGGTGGTG
CGGATGCTCCTGCAGGTCCTGCAGGCGCTGCCCGCCCAAGGTGAGTCCTTCACCACCCTGGCCCGGGAGCTGAGT
GCGCGCACTTTCAGCCGGCACGTGGTGCAGAGGCAGCGGGTCAGTGGCCAGGTGCAGGCGCTGCAGAACCACTAC
AGGAAGTACCTCTGCTTGCTGGCCTCCGACGCCGAGGTGCCCGAGCCCTGCCTGCCGCGGCAGTACTGGGAGGAG
CTGGGGGCGCCCGAGGCCCTGCGGGAGCAGCCCTGGCCCCTGCCAGTGCAGATGGAGCTGGGCAAGCTGCTGGCG
GAGATGCTGGTGCAGGCTACGCAGATGCCATGCAGCCTGGACAAGCCGCATCGTTCCTCTCGGCTTGTCCCCGTG
CTCTACCACGTGTATTCCTTCCGCAACGTCCAGCAGATCGGCATCCTGAAGCCGCACCCGGCCTACGTGCAGCTG
CTGGAGAAGGCCGCGGAGCCCACGCTGACCTTCGAGGCGGTGGATGTACCCATGCTTTGCCCCCCGCTGCCCTGG
ACATCGCCGCACTCTGGTGCTTTCCTGCTCAGCCCCACCAAGCTGATGCGCACGGTGGAAGGCGCCACGCAGCAC
CAGGAGCTGCTGGAAACCTGCCCGCCCACCGCGCTGCATGGCGCACTGGACGCCCTCACCCAACTGGGCAACTGC
GCCTGGCGCGTCAACGGGCGCGTGCTGGACCTGGTGCTGCAGCTCTTCCAGGCCAAGGGCTGCCCCCAGCTAGGC
GTGCCGGCCCCGCCCTCCGAGGCGCCCCAGCCGCCCGAGGCCCACCTGCCGCACAGCGCCGCGCCCGCCCGCAAG
GCCGAGCTGCGCCGTGAGCTGGCGCACTGCCAGAAGGTGGCCCGGGAGATGCACAGCCTGCGGGCGGAGGCGCTG
TACCGCCTCTCGCTGGCGCAGCACCTGCGGGACCGCGTCTTCTGGCTGCCGCACAACATGGACTTCCGCGGCCGC
ACCTACCCCTGCCCGCCGCACTTCAACCACCTGGGCAGCGACGTGGCGCGGGCCCTGCTGGAGTTCGCCCAGGGC
CGCCCGCTCGGCCCGCACGGCCTGGATTGGCTCAAGATCCACCTGGTCAATCTCACGGGGTTGAAGAAGCGGGAG
CCGCTGCGGAAGCGCCTGGCCTTTGCGGAGGAGGTGATGGATGACATCCTGGACTCCGCGGACCAACCCTTGACG
GGCCGAAAGTGGTGGATGGGCGCGGAGGAACCCTGGCAGACGCTGGCCTGCTGTATGGAGGTGGCGAACGCTGTG
CGCGCCTCCGACCCTGCCGCCTATGTCTCCCACCTCCCCGTCCATCAGGACGGCTCTTGCAACGGCCTGCAGCAT
TATGCTGCTCTGGGCCGCGACAGCGTGGGCGCCGCCTCCGTCAACCTGGAGCCCTCGGATGTGCCGCAGGACGTG
TACAGCGGCGTGGCCGCGCAGGTGGAGGTGTTCCGTAGGCAGGACGCCCAGCGGGGCATGCGGGTGGCACAGGTG
CTGGAAGGTTTCATCACCCGCAAGGTGGTGAAGCAGACGGTGATGACGGTGGTGTACGGGGTCACGCGCTATGGC
GGGCGCCTGCAGATTGAGAAGCGCCTCCGGGAGCTGAGCGACTTTCCCCAGGAGTTCGTGTGGGAGGCCTCTCAC
TATCTCGTACGCCAGGTCTTCAAGAGTCTACAGGAGATGTTCTCGGGGACCCGGGCCATCCAGCACTGGCTGACC
GAGAGTGCCCGCCTCATCTCCCACATGGGCTCTGTGGTGGAGTGGGTCACACCCCTGGGCGTCCCCGTCATCCAG
CCCTATCGCCTGGACTCCAAGGTCAAGCAAATAGGAGGTGGAATTCAGAGCATCACCTACACCCACAACGGAGAC
ATCAGCCGAAAGCCCAACACACGTAAGCAGAAGAACGGCTTCCCGCCCAACTTCATCCACTCGCTGGACTCCTCC
CACATGATGCTCACCGCCCTGCACTGCTACAGGAAGGGCCTGACCTTCGTCTCTGTGCACGACTGTTACTGGACT
CACGCAGCTGATGTCTCCGTCATGAACCAGGTGTGCCGGGAGCAGTTTGTCCGCTTGCACAGCGAGCCCATCCTG

FIGURE 234B

CAGGACCTGTCCAGATTCCTGGTCAAGCGGTTCTGCTCTGAGCCCCAGAAGATCTTGGAGGCCAGCCAGCTGAAG
GAGACACTGCAGGCGGTGCCCAAGCCAGGGGCCTTCGACCTGGAGCAGGTGAAGCGTTCCACCTACTTCTTCAGC
TGACACCCCGTGAGCCTTGTCAGTGTGTAAATAAAGCTCTTTTGCCACCCCC

FIGURE 235

AGCAAACGGCCGGCGGCGGGTGCCGCGCGGGGGGCGGGCGGCGCGGAGTAGGTGGCGGCGGCC**ATG**GCCGAGGCG
TCGCCGCATCCCGGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCGCCTGCCGGATTATATCTGT
CCAAGATGCGAGTCTGGTTTTATCGAGGAGCTTCCGGAAGAGACCAGGAGCACAGAAAATGGTTCTGCCCCCTCC
ACAGCTCCCACAGACCAGAGCCGGCCACCGTTGGAGCACGTGGACCAGCACCTGTTCACGCTGCCGCAGGGCTAC
GGACAGTTTGCTTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGACGAC
GGCAGGGACCCTGAGAGCCGGCGGGAGAGAGACCATCCGTCCCGGCACCGGTACGGCGCCCGACAGCCCCGCGCC
CGCCTCACCACGCGGCGGGCCACCGGCCGGCACGAAGGCGTCCCCACGCTGGAAGGGATCATCCAGCAGCTCGTC
AACGGCATCATCACGCCCGCCACCATCCCCAGCCTGGGCCCCTGGGGAGTCCTGCACTCAAACCCTATGGACTAC
GCCTGGGGGGCCAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAACACAGGCCCCCCACCG
GCAGATAAAGAGAAAATCCAGGCCCTCCCCACCGTCCCCGTCACTGAGGAGCACGTAGGCTCCGGGCTCGAGTGC
CCTGTGTGCAAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCCACGACGGC
TGCATCGTGCCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAAGCCTCACGGGACAGAACACGGCC
ACGAACCCCCCTGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTCGTCATCGTCCTCCTCCAGCTCGCCCAGCAAC
GAGAACGCCACAAGCAACTCG**TGA**GCCCACGTCGGCCGTCGGGAAAGCACGGGGCCTTTCCCACCCACCCTCAGC
CAGCGCCACACGGCACCCACAGACTGGGTGCCCCGGCGGCGCCACGCTTGGCTGGTCAGCGCTGCAGGTCCCGCC
TGTTCCAGGGCAGGACCCGGGCCCGGCCCACCGGCCCCCTGGCTTGGGAAGGCGTGGGCCACATGGTCCCCTCTG
GGGCGTCCCCAGCCTCCCCGTCCTCTGTCTAACCTCACCCTCTAAACGTTCAGCGGTGGAAAGATTTTTATAATT
TTAAATTATTACTGCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGCATGGTTTGTGGCGGAAGAC
GGGGCCCAGCGGCTCCCCCAGCGCTGAAGCACGGGGTTCAGCGGCTCCCCCAGTGCTGCAGGTGCCGCCAGGACG
GGCCACGTGGGCCCCCAGCCTCCCCCTCGGCCGCCTCCACGACCCGGAGTAGGGGGGCTCGGGACCATGAGGATG
ACCAGCAAAATTCAAGAACAAAACTGCTCCAACAGACTTTTTTAAAGGAAAAAATATGTGTATCTTGAAAGCTAT
TTAAAATACACTACTTACAAAGAG

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FIGURE 236

GTTCGCCATGCGTCCCGGGGCGCCAGGGCCACTCTGGCCTCTGCCCTGGGGGGCCCTGGCTTGGGCCGTGGGCTT
CGTGAGCTCCATGGGCTCGGGGAACCCCGCGCCCGGTGGTGTTTGCTGGCTCCAGCAGGGCCAGGAGGCCACCTG
CAGCCTGGTGCTCCAGACTGATGTCACCCGGGCCGAGTGCTGTGCCTCCGGCAACATTGACACCGCCTGGTCCAA
CCTCACCCACCCGGGGAACAAGATCAACCTCCTCGGCTTCTTGGGCCTTGTCCACTGCCTTCCCTGCAAAGATTC
GTGCGACGGCGTGGAGTGCGGCCCGGGCAAGGCGTGCCGCATGCTGGGGGGCCGCCCGCGCTGCGAGTGCGCGCC
CGACTGCTCGGGGCTCCCGGCGCGGCTGCAGGTCTGCGGCTCAGACGGCGCCACCTACCGCGACGAGTGCGAGCT
GCGCGCCGCGCGCTGCCGCGGCCACCCGGACCTGAGCGTCATGTACCGGGGCCGCTGCCGCAAGTCCTGTGAGCA
CGTGGTGTGCCCGCGGCCACAGTCGTGCGTCGTGGACCAGACGGGCAGCGCCCACTGCGTGGTGTGTCGAGCGGC
GCCCTGCCCTGTGCCCTCCAGCCCCGGCCAGGAGCTTTGCGGCAACAACAACGTCACCTACATCTCCTCGTGCCA
CATGCGCCAGGCCACCTGCTTCCTGGGCCGCTCCATCGGCGTGCGCCACGCGGGCAGCTGCGCAGGCACCCCTGA
GGAGCCGCCAGGTGGTGAGTCTGCAGAAGAGGAAGAGAACTTCGTGTGAGCCTGCAGGACAGGCCTGGGCCTGGT
GCCCGAGGCCCCCCATCATCCCCTGTTATTTATTGCCACAGCAGAGTCTAATTTATATGCCACGGACACTCCTTA
GAGCCCGGATTCGGACCACTTGGGGATCCCAGAACCTCCCTGACGATATCCTGGAAGGACTGAGGAAGGGAGGCC
TGGGGGCCGGCTGGTGGGTGGGATAGACCTGCGTTCCGGACACTGAGCGCCTGATTTAGGGCCCTTCTCTAGGAT
GCCCCAGCCCCTACCCTAAGACCTATTGCCGGGGAGGATTCCACACTTCCGCTCCTTTGGGGATAAACCTATTAA
TTATTGCTACTATCAAGAGGGCTGGGCATTCTCTGCTGGTAATTCCTGAAGAGGCATGACTGCTTTTCTCAGCCC
CAAGCCTCTAGTCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGAGTACGGA
GGGTCTAGCCTGGGTGAGTACGGAGGGTCTAGCCTGGGTGAGTACGGAGGGTCTAGCCTGGGTGTGTATGGAGGA
TCTAGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGTGTATGGAGGGTCT
AGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGTGTATGGAGGGTCTAGCCTGGGTGAGTATGGAGGGTCTAGC
CTGGGTGTGTACGGAGGGTCTAGTCTGAGTGCGTGTGGGGACCTCAGAACACTGTGACCTTAGCCCAGCAAGCCA
GGCCCTTCATGAAGGCCAAGAAGGCTGCCACCATTCCCTGCCAGCCCAAGAACTCCAGCTTCCCCACTGCCTCTG
TGTGCCCCTTTGCGTCCTGTGAAGGCCATTGAGAAATGCCCAGTGTGCCCCCTGGGAAAGGGCACGGCCTGTGCT
CCTGACACGGGCTGTGCTTGGCCACAGAACCACCCAGCGTCTCCCCTGCTGCTGTCCACGTCAGTTCATGAGGCA
ACGTCGCGTGGTCTCAGACGTGGAGCAGCCAGCGGCAGCTCAGAGCAGGGCACTGTGTCCGGCGGAGCCAAGTCC
ACTCTGGGGGAGCTCTGGCGGGGACCACGGGCCACTGCTCACCCACTGGCCCCGAGGGGGGTGTAGACGCCAAGA
CTCACGCATGTGTGACATCCGGAGTCCTGGAGCCGGGTGTCCCAGTGGCACCACTAGGTGCCTGCTGCCTCCACA
GTGGGGTTCACACCCAGGGCTCCTTGGTCCCCCACAACCTGCCCCGGCCAGGCCTGCAGACCCAGACTCCAGCCA
GACCTGCCTCACCCACCAATGCAGCCGGGGCTGGCGACACCAGCCAGGTGCTGGTCTTGGGCCAGTTCTCCCACG
ACGGCTCACCCTCCCCTCCATCTGCGTTGATGCTCAGAATCGCCTACCTGTGCCTGCGTGTAAACCACAGCCTCA
GACCAGCTATGGGGAGAGGACAACACGGAGGATATCCAGCTTCCCCGGTCTGGGGTGAGGAATGTGGGGAGCTTG
GGCATCCTCCTCCAGCCTCCTCCAGCCCCCAGGCAGTGCCTTACCTGTGGTGCCCAGAAAAGTGCCCCTAGGTTG
GTGGGTCTACAGGAGCCTCAGCCAGGCAGCCCACCCCACCCTGGGGCCCTGCCTCACCAAGGAAATAAAGACTCA
A

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FIGURE 237

CCCCCGCGCCGCGCAGCCCCGGCCGCCAGGCCTTAGCCCGCCCCGGCCCCCGCCAGGCCGCGTCCCCCTCCCCTC
CCCTCCCCCGCGCGCCACCCGCGCCCGCCCCCGCCCGGCACCGCGGACCCACCCGGACCTCGGCGGGGAGATGGA
GGTCCTGGCGGCAGAGACCACGTCCCAGCAGGAGCGGCTGCAGGCCATCGCAGAGAAGCGGAAGCGGCAGGCGGA
GATCGAGAACAAGCGCCGGCAGCTGGAGGACGAGCGGAGGCAGCTGCAGCACCTGAAGTCCAAGGCACTGCGGGA
GCGCTGGCTGCTGGAGGGGACGCCGTCCTCGGCCTCAGAGGGGGATGAGGACCTGAGGAGGCAGATGCAGGACGA
CGAGCAGAAGACACGGCTGCTGGAGGACTCGGTGTCCAGGTTGGAGAAGGAAATTGAGGTGCTGGAGCGTGGAGA
CTCCGCCCCAGCCACTGCCAAGGAGAACGCGGCGGCCCCGAGCCCAGTCCGGGCCCCAGCCCCGAGTCCAGCCAA
GGAGGAGCGCAAGACAGAGGTGGTGATGAATTCACAGCAGACGCCGGTGGGCACGCCCAAAGACAAGCGAGTCTC
CAACACGCCCCTGAGGACGGTTGACGGCTCCCCCATGATGAAGGCAGCCATGTACTCGGTTGAGATCACTGTGGA
GAAGGACAAGGTGACAGGGGAGACCAGGGTGCTGTCCAGCACCACGCTGCTCCCTCGGCAGCCGCTCCCTCTGGG
CATCAAAGTCTACGAGGACGAGACCAAAGTGGTCCATGCTGTGGACGGCACCGCCGAGAACGGGATCCACCCCCT
GAGCTCCTCCGAGGTGGACGAACTCATCCACAAAGCGGACGAGGTCACGCTGAGCGAGGCAGGGTCCACGGCCGG
GGCGGCAGAGACCCGGGGGGCTGTGGAGGGGGCAGCCCGGACCACGCCCTCCCGGCGGGAGATCACCGGTGTGCA
GGCACAGCCAGGCGAGGCCACGTCCGGCCCGCCGGGGATCCAGCCCGGCCAGGAGCCCCCGGTCACAATGATCTT
CATGGGTTACCAGAACGTGGAGGATGAGGCCGAGACCAAGAAGGTGCTGGGCCTTCAAGATACCATCACGGCGGA
GCTGGTGGTCATCGAAGACGCGGCTGAGCCCAAGGAGCCTGCACCACCCAACGGCAGTGCTGCCGAGCCTCCCAC
GGAGGCCGCCTCCAGGGAAGAGAATCAGGCGGGGCCCGAGGCCACCACCAGCGACCCCCAGGACCTCGACATGAA
GAAGCACCGTTGTAAATGCTGCTCCATCATGTGAGCCGGCCCCCGAGACCCCGGCCCCCACCCCACACCACAGAC
ACCCACCAGCCCGGCCCCTCCCGGCGCCTGCCCACCCTCCACCCACAGCCTCACGGGTCCAGGACTTGGCGTGTT
GTTACATGTTCCTTCCGAGTTTTCTTTCGCTGGAAAGAGGGACAGGGGCCCCCACCCGTCACCACGCCCCAACAC
TCCCCCCGAACCAGAGCCGTGCACTTGTGCCTGGTAGGAGAGAGACAGGACAGACCCGCTTTTCCCGAGACAAGG
ACCCCCCATGTCACGGCAGCTTCACAGACGCGGCTCGCGCCCACCGGGGTCCTGGCGGGTGGGACCCGCAGCCTC
CACGCGGCCCAGGCCAGCCTGCCACCCTCTGGGCCTCCTACCTGTGCCTTTCTCTGAGGGGACACCCCGCCAGAG
AGGGCCCCGGGAGCCGGGGGTGGGTACTGAGGCCTGCTCAGGCCCTGGAAGTGAGGCTCTATGGGGTTCCCTGGC
CAAGGCGCTGGCCCCCCAATCTCAGGCAGTTGGGGTGAGGCCGTGCCTCTTTGGGGGCTAAAGGTCTTGGGTGGA
GGACAGGCCCCTCTGCTGTGCCCCTATGCCCTGTGTGGGCCCAACCAGTGGACAATGGAGTCTGGGGGAGGGGGA
ACCCCGGGGACATGCCCCCACCCGGGAGGGGCCGGTAACCCCTGGGCTATCTTCTAGACGGGGCGAACCAGGGGT
CATTGACCTGCCCCCTGCACAGGGCAGGGACCGAGTGAGCCACTCCTTGTCCCGAGCTCCCGCCCCCACTGGGCC
CTCCTTCCTCCTGGTGCTAATTTGGGGACCCCAGGGGCCGCCCCCGGCCTCTTCTCCATCCTGCTTGGACCAGGG
TCCTGGGTCTTCCCAACCATACCCCGAGATCAGGCCCCACCTGCCAGCTCTACTGGGCTTGGAGCACGTCCGGGC
AGTGGAGGGAGGGACACAGCCTGGGACAGGAAGCCTCTTGGGTTGGAGCAGGAGACCCTCATTTGCCACCCAGAC
CAATGTGAGCCTGCCCCCAGCCCCCTCTCATTGGAAGTGGCAAGGGGCTTCCCTCCTGGGGGCAGCTACACTCGT
CCCCAGAGGCACATTCGTGCACATTCTCACAGACACCGTCTCACACGTTGGCTTTGGACAACCAGGCCCCAACTT
GGTCCCTGCCCTAGGGACCTCCAGCCTGGTGCCCAGTGCTCAGGCCACCTCCTGGTCCAGTCACCACCTGCAGCC
TCGGCAGGGCAGGTACAGGGGCCACCTCAGATGGGAGCCTGGGTCCCTGCCTCCGCTCTGCCCCTGGGTGGCTGG
GAGGAGAGGCCCTCTCGGGGGTGACCTGGGCGTCAGCCGTGGAACCCCCTCCTCCTCCCTGGAGTCTGCCTGAGT
CCCTCGAGCCGCGAGCCTTCGCTGAAGTGCCCTTGCTATAACCCCCTCTGCTTCTGGTGTGTGACGAGGCCCCCG
ATGTTCTTGATTTTCCCAGAGAAGCAAATAAACAGCGTGAACAGCCCC

FIGURE 238

ATGCCCAGCTCTTCACCCACCGCCCCACGTGCCCACCATGCCAGGCTTCGGTCCCCGCCATGCCCAGCTCTTCAC
GCACCGCCCCACGGAATGCTGCTCACAGGACCCCTATACGGGTTTGCAGGAGGTCAAGGCTCTGTGACCGTGATG
GCCCGTCCGGGGCAGAGACCTCATGATGCGGGTGGCACAGAGCAGCTGCGTGTTGGCGACAAACAGCCCACAATT
CTCAAATGGCGGATCCTATCGGCCACCAACGATCTGGACCGTGTGTCGGCCGTGGCGCTGCCCAAGCTGCCCATC
TCGCTCACCAACACCGACCTCAAGGTGGCCAGCGACACACAGTTCTACCCTGGCCTCGGGCTGGCCCTGGCCTTC
CACGACGGCAGCGTCCACATCGTGCACCGGCTCTCACTGCAGACCATGGCCGTCTTCTACAGCTCCGCGGCCCCG
AGGCCTGTGGATGAGCCGGCCATGAAGCGCCCCCGCACCGCGGGCCCCGCCGTCCACTTAAAGGCTATGCAGCTA
TCGTGGACGTCACTGGCCCTGGTGGGGATTGACAGCCACGGGAAGCCAGGGGAAGGCGAGCTGCTGGGGCACGTG
GGGCTGGGGCTGGTGGGCATTGACAACCAGGGGAAGGCGAGCTGCTGGGCATTGACAACCAGGGGAAGGCGAGCT
GCTGGGGCACGTGGGGCTGGGGCTGGGGAAGGCGAGCTGCTGGGCATTGACAACCAGGGGAAGGCGAGCTGCTGG
GGCATGGCCCTGGTGGGCATTGACAACCAGGGAAAGCTGAGCGTGCTCCGCCTCTCACCTTCCATGGGCCACCCG
CTGGAGGTGGGGCTGGCGCTGCGGCACCTGCTCTTCCTGCTGGAGTACTGCATGGTGACCGGCTACGACTGGTGG
GACATCCTGCTGCACGTGCAGCCCAGAAGGAACTGCTGGACCAGCAGAATGAGGGGCCAACGCCAGGGGCAGCAC
TGCCCGGCCACAGAGGACTGTGGCCCCACAGATGACACCCTCAGCTACCAGCTCCTGCATCTGGAAGATGACCAG
GAGGAGGAAGGACGGTCTGCAAGTGTTCAAAGCCCATCAAAACCAGAGCAAACTGGTACCTGTGATACAGCCTCC
ACTCCAGCCCCAGGGCCCAGCCCCAGGCCACCCGAGCCGGCTGCCGCTGACCCTGTGGTCGGGCTGATCAAATTC
TGCCTCCTCAGCGAGGCCTTCCTGACCCTCCCGGGCCCTTCCTGCCTTTCTCTCTGGCTGCGGCTGTTTCCTGCG
GGGCTGGCTGCAGCTCCCGGCGGCGCCCTGTCCTGTACCTGTTTCATGTCCATCGTCGGCAACCCCTGGCTTCTA
ACACAGCTCATTGCCCGCAGGACCTCCCAGCAGGAGCAGGGACCCAGCTCAGAGTATCATTTTCAAAATGGTAAC
CAGCAAACCAACGTGATTCTCGCACAAAGGCAAGTCGGGATTCGCTGTTCCGGGGCGAACAAAGAACGGTCGGGG
GTGACCCCGGATCATGGCGCGCCCGCAGTATCTGTGGCCACTGTGGAAACAGCCCTGGCGTGTCCGGGACGCGAC
GCGGCCTTTCCCTCCCCGCGCGATCACCCAGATGTGAGCGCTCAGTTTGAATCGGACTTTTTGGCCATGTGCCCA
CAACCAACATGGAGCCCTGAGGGTTTCCTGCCCGACTCCAAGATGGCGATGCGACTCCCTTTGCCCTCACGGCCC
AGGCGGGCGGGTCCTGCCCACTTGCAAGATGGCGGCAGCCTGGGCAAAGCACGCTTCCCGCCGCCTGACTCGCCA
CGTACCCACTCTCAAGATGGCGTCTCCCGCAAAGCCACGCGCCAGCTGACTGGCTCAGACGCCGTCACGTGA

FIGURE 239

TTGTGAGTCTATAACTCGGAGCCGTTGGGTCGGTTCCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGCGGGTCT
GCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTCT
ACTTGTGTCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAAG
TTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTCACG
GAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGAAAAACCAG
GCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACTACTACACCTCGGTGACCCCTGTGCTG
CGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCGG
GCCCAGGCGGCCCTGCAGGCGGTGAACTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGCCGTG
GACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCTGTGACC
CTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCAG
TTCCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCCAGCACGCCAAGCTGTCGCTGGACGGGCAGAACATC
TACAACGCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAAG
AGCCGTGACTACACACGCCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGCC
TTCGGTGCACCTGGTATAATCTCAGCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCCACCTTTGCCATTCCTCAA
GCTGCAGGCCTTTCCGTTCCGAACGTCCACGGCGCCCTGGCCCCCCTGGCCATCCCCTCGGCGGCGGCGGCAGCT
GCGGCGGCAGGTCGGATCGCCATCCCGGGCCTGGCGGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAAC
CCAGAGAGAGTCACACCCCAAAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTG
TTCAATAAGAAGGAGAACGCCCTAGTGCAGATGGCGGACGGCAACCAGGCCCAGCTGGCCATGAGCCACCTGAAC
GGGCACAAGCTGCACGGGAAGCCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCCGCGAGGGC
CAGGAGGACCAGGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAAC
TTCCAGAACATATTCCCGCCCTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTC
AAGGTCCTGTTTTCCAGCAATGGGGGCGTCGTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACTG
ATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCAC
CACCTGCGGGTCTCCTTCTCCAAGTCCACCATCTAGGGGCACAGGCCCCCACGGCCGGGCCCCCTGGCGACAACT
TCCATCATTCCAGAGAAAAGCCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTTAA
AGAGAAATCAGTTTACCTGTTTTTAAAAAAATTAAATCTAGTTCACCTTGCTCACCCTGCGGTGACAGGGACAGC
TCAGGCTCTTGGTGACTGTGGCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCCTCGGGGCCATGCCT
TGGTGGGGCCTGTGTCGGGCGTGGGGCCTGCAGGTGGGCGCCCCGACCACGACTTGGCTTCCTTGTGCCTTAAAA
AACCTGCCTTCCTGCAGCCACACACCCACCCGGGGTGTCCTGGGGACCCAAGGGGTGGGGGGGTCACACCAGAGA
GAGGCAGGGGGCCTGGCCGGCTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCCGCGGCTGCGACACCCCAACC
CCAGCCCTCTAATCAAGTCACGTGATTCTCCCTTCACCCCGCCCCCAGGGCCTTCCCTTCTGCCCCCAGGCGGGC
TCCCCGCTGCTCCAGCTGCGGAGCTGGTCGACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTGC
CTAGCAATATTTCCAGTTGACCAAATATTCTAATCTTTTTTCATTTATATGCAAAAGAAATAGTTTTAAGTAACT
TTTTATAGCAAGATGATACAATGGTATGAGTGTAATCTAAACTTCCTTGTGGTATTACCTTGTATGCTGTTACTT
TTATTTTATTCCTTGTAATTAAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCCGCCCAGTGGGTCA
GGCACAGGGAGCCCCGGTCCTATCTTAGAGCCCCTGAGCTTCAGGGAAGGGGCGGGCGTGTCGCCGCCTCTGGCA
TCGCCTCCGGTTGCCTTACACCACGCCTTCACCTGCAGTCGCCTAGAAAACTTGCTCTCAAACTTCAGGGTTTTT
TCTTCCTTCAAATTTTGGACCAAAGTCTCATTTCTGTGTTTTGCCTGCCTCTGATGCTGGGACCCGGAAGGCGGG
CGCTCCTCCTGTCTTCTCTGTGCTCTTTCTACCGCCCCCGCGTCCTGTCCCGGGGGCTCTCCTAGGATCCCCTTT
CCGTAAAAGCGTGTAACAAGGGTGTAAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGGCG
CGGTTTTTTATGGTGACACAAATGTATATTTTGCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCAC
AGGGGACCCCACGCACATTCCGTTGCCTTACCCGATGGCTTGTGACGCGGAGAGAACCGATTAAAACCGTTTGAG
AAACTCCTCCCTTGTCTAGCCCTGTGTTCGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACTT
CGAATAAATCTTCTGTATCCTCGCTCCGTTCCGCCTT

FIGURE 240

GAGGAGACGCGCTTTGTGCTGGGCGCCGGCCGCGCCAGCCACGGCCTGCGGCGCCCGCGGCACCATGATCTCCAC
CAAGGAGAAGAACAAGATCCCGAAGGACAGCATGACGCTTCTGCCCTGCTTCTACTTCGTGGAGCTGCCCATAGT
GGCTTCTTCCATCGTATCCTTGTACTTCCTGGAGCTGACCGACCTCTTCAAGCCGGCCAAGGTGGGCTTCCAGTG
CTATGACCGCACTCTCTCCATGCCCTACGTGGAGACCAACGAGGAGCTCATCCCGCTGCTGATGCTGCTCAGCTT
GGCCTTCGCGGCCCCTGCCGCCTCGATCATGGTGGCCGAGGGCATGTTGTACTGTCTGCAGTCCCGGCTGTGGGG
CCGTGCCGGGGGGCCCGCCGGGGCGGAGGGCAGCATCAACGCCGGCGGCTGCAACTTCAACTCCTTCCTGCGGCG
TACGGTGCGGTTTGTGGGTGTCCACGTGTTCGGCCTGTGTGCCACAGCCCTGGTGACGGACGTGATCCAGCTGGC
CACGGGTTACCACACTCCCTTCTTCCTCACCGTCTGCAAGCCCAACTACACTCTCCTGGGCACGTCCTGCGAGGT
CAACCCCTACATCACGCAGGACATCTGCTCCGGCCACGACATCCACGCCATCCTGTCTGCACGGAAGACCTTCCC
GTCCCAGCACGCCACGCTGTCAGCCTTCGCCGCGGTCTATGTGTCGGTGAGTCCGGCCCCTCACTGCCCTTCCCA
GGCCCTCTTGCTGACCCGTGGGGAGCCCTCCCTGACCCCAACCCCCATGCCCCAGATGTACTTCAACTCGGTCAT
CTCGGACACCACCAAGCTGCTGAAGCCCATCCTGGTCTTCGCCTTTGCCATCGCCGCGGGCGTATGCGGGCTCAC
GCAGATCACGCAGTACCGCAGCCACCCTGTGGACGTGTATGCCGGCTTCCTCATCGGGGCGGGCATCGCTGCCTA
CCTGGCCTGCCACGCGGTGGGCAACTTCCAGGCCCCACCTGCAGAGAAGCCCGCGGCCCCGGCCCCCGCCAAGGA
CGCGCTGCGGGCCCTGACGCAGCGGGGCCACGACTCGGTTTATCAGCAGAATAAGTCGGTGAGCACCGACGAGCT
GGGGCCCCCAGGGCGGCTGGAGGGCGCGCCCCGGCCCGTGGCCCGCGAGAAGACCTCGCTGGGCAGCCTGAAGCG
CGCCAGCGTGGACGTGGACCTGCTGGCCCCGCGCAGCCCCATGGCCAAGGAGAACATGGTGACCTTCAGCCACAC
GCTGCCCAGGGCCAGCGCGCCCTCGCTGGACGACCCCGCGCGCCGCCACATGACCATCCACGTGCCGCTGGACGC
CTCGCGCTCCAAGCAGCTCATCAGCGAGTGGAAGCAGAAGAGCCTGGAGGGCCGCGGCCTGGGGCTGCCCGACGA
CGCCAGCCCCGGGCACCTGCGCGCGCCCGCCGAACCCATGGCGGAGGAGGAGGAAGAGGAGGAGGACGAAGAGGA
AGAGGAGGAGGAGGAAGAGGAGGAGGACGAGGGCCCGGCCCCGCCCTCGCTCTACCCCACCGTGCAGGCGCGGCC
GGGGCTGGGGCCTCGGGTCATCCTCCCACCGCGCGCGGGGCCGCCGCCGCTGGTGCACATCCCGGAGGAGGGCGC
GCAGACGGGGGCCGGCCTGTCCCCCAAAAGCGGCGCCGGGGTGCGCGCCAAGTGGCTCATGATGGCCGAGAAGAG
CGGGGCGGCAGTGGCCAACCCTCCGCGGCTGCTGCAGGTCATCGCCATGTCCAAGGCTCCGGGCGCGCCGGGCCC
CAAGGCGGCCGAGACGGCGTCGTCGTCCAGCGCCAGCTCCGACTCCTCGCAGTACCGGTCGCCGTCGGACCGCGA
CTCCGCCAGCATCGTGACCATCGACGCGCACGCGCCGCACCACCCCGTGGTGCACCTGTCGGCCGGCGGCGCGCC
CTGGGAGTGGAAGGCGGCGGGCGGCGGGGCCAAGGCGGAGGCCGACGGCGGCTACGAGCTGGGGGACCTGGCGCG
CGGCTTCCGCGGCGGGGCCAAGCCCCCGGGCGTGTCCCCCGGCTCGTCGGTCAGCGACGTGGACCAGGAGGAGCC
GCGGTTCGGGGCCGTGGCCACCGTCAACCTGGCCACGGGCGAGGGGCTGCCCCCGCTGGGCGCGGCCGATGGGGC
GCTGGGCCCGGGCAGCCGGGAGTCCACGCTGCGGCGCCACGCGGGCGGCCTGGGGCTGGCGGAGCGCGAGGCGGA
GGCGGAGGCCGAGGGCTACTTCCGCAAGATGCAGGCGCGCCGCTTCCCCGACTAGCGCGGCGGGGCCGGGGGCGG
GCGGGGGGCGGGCCGAGGGCGCGGGCGGCCGC

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FIGURE 241

GCCCAGCTAATTTTTTATTTATTTGTAGAGATGGAGTCGCGCTACGTGGCCCATGCTGATCTCGAACTCCTGAGA
TCCAATGATCCTCCCACCTCGGCCTCCCCTTCTGCATATAGTAGGTGCTCAATAAAGACCAACCAGATGCAGGAG
TGGATGACTTCATTGCTCGGGACTTTGTTGCTTGGGTGACCCTGACCTTCAGGCCCCGGCACCCTAGGCCAGGAC
GCTGTCGATCCAGGCCGCATAGCTCGCCACGCGGGTGTAGATCCCGGGCTTCTTGCGGTTGCCGCAAACGCGCGA
GCCCGAGGTGACCACGCCCTCGAGCACGCCCCCGCACACCAGCGGGCCCCCGGAGTCACCCTTGCAGCTGTCCCG
GCGATTGCTCTCCGCGCACATCAAGCGCTCGGTG**ATG**GCGCCGTCGTGGTGCGTGCGCCGGTTGCAGGTGGCGCG
GTCCAGCACTGGCAAGAGCACGTGCTGCAGGCTGTCCGGGCGGCGGCCCGCGTGGTTGACTATGCCCCAGCCGGC
CACGTCGCAGAGAGTTCCCGGTGCCACGTCGCGGTCCACGCGCTGCCAGGGCAGGGGGCGCACAGCAGGGCCCAG
TGTGGCCTTCTCCGACAGCTGTAGCAGCAGGAGGTCGTGGTCGATGGTGTCGGGCTGGCTGTCCGGGTGGGGCAC
TGCGCGGAGCACGTCGTACAGGCGCTTGGAGGGCTCCGGCTGCGACAGGGAGTGCGCGCCCAGGAGAACCTGCAC
CTTCCCGTCGGCCGCGTCCTCCAGGCAGTGCGCCGCGCTCAGCACCCACTGCTCCGCCACCAGGACGCCGCCGCA
CAGGTGCGCGCCGTTCAGCTGCACCGACGCCATG**TAG**GGCCGCGCGTGCGCCTCGGCCTCTCTGCCGCCCAGGAT
CCGACCACGGGGCGGCGCCGC

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FIGURE 242

ATGTGTGATTTGCGGCGGCCAGCGGCAGGTGGGATGATGGACTTGGCCTACGTCTGTGAGTGGGAGAAATGGTCC
AAGAGCACCCACTGCCCATCGGTGCCCCTGGCCTGCGCCTGGTCCTGCCGAAATCTCATCGCCTTCACCATGGAC
CTGCGCAGCGATGACCAGGACCTGACCCGCATGATCCACATCCTGGACACGGAGCACCCCTGGGACCTGCACTCG
ATCCCCTCAGAGCACCACGAGGCTATCACCTGCCTGGAGTGGGACCAGTCAGGCTCCCGGCTCCTGTCAGCAGAT
GCCGACGGGCAGATCAAGTGCTGGAGCATGGCGGACCACCTGGCTAATAGCTGGGAGAGCTCAGTGGGCAGCCTA
GTGGAGGGGGACCCCATTGTGGCCCTGTCCTGGCTGCACAATGGTGTGAAACTGGCCCTGCACGTGGAGAAGTCG
GGCGCCTCCAGCTTCGGGGAGAAGTTCTCCCGAGTCAAGTTCTCACCGTCGCTCACGCTGTTCGGCGGCAAGCCC
ATGGAGGGCTGGATCGCGGTGACGGTCAGCGGCCTGGTCACCGTGTCCCTGCTGAAGCCCAGCGGGCAGGTGCTG
ACGTCCACCGAGAGCCTGTGCCGGCTGCGCGGCCGCGTGGCCCTGGCGACATCGCCTTCACCGGCGGCGGCAACA
TCGTGGTGGCCACGGCGGACGGCAGCAGCGCGTCGCCCGTGCAGTTCTACAAGGTGTGCGTGAGCGTGGTGAGCG
AGAAGTGCCGTATCGACACGGAGATCCTGCCCTCCCTGTTC**ATG**CGCTGCACCACCGACCTCAACCGCAAGGACA
AGTTCCCCGCCATCACCCACCTCAAGTTCCTGGCCCGGGACATGTCGGAGCAGGTGCTTTTGTGCGCGTCCAGCC
AGACCAGCAGCATCGTGGAGTGCTGGTCCCTGCGCAAGGAGGGACTCCCCGTGAACAACATCTTCCAGCAGATCT
CCCCCGTGGTTGGCGACAAACAGCCCACAATTCTCAAATGGCGGATCCTATCGGCCACCAACGATCTGGACCGTG
TGTCGGCCGTGGCGCTGCCCAAGCTGCCCATCTCGCTCACCAACACCGACCTCAAGCTGAGCGTGCTCCGCCTCT
CACCTTCCATGGGCCACCCGCTGGAGGTGGGGCTGGCGCTGCGGCACCTGCTCTTCCTGCTGGAGTACTGCATGG
TGACCGGCTACGACTGGTGGGACATCCTGCTGCACGTGCAGCCCAGTATGGTACAGAGCCTGGTGGAGAAGCTGC
ACGAGGAGTACACGCGCCAGACCGCTGCCCTGCAGCAGGTCCTCTCCACCCGGATCCTGGCCATGAAGGCCTCGC
TCTGCAAGCTGTCGCCCTGCACGGTGACTCGCGTGTGCGACTACCACACCAAGCTCTTCCTCATCGCCATCAGCT
CCACCCTGAAGTCGCTGCTGCGCCCCCACTTTCTCAACACGCCTGACAAGAGCCCCGGCGACCGGCTGACCGAGA
TCTGCACCAAGATCACCGACGTCGACATTGACAAGGTCATGATCAACCTCAAGACGGAGGAATTTGTGCTGGACA
TGAACACACTGCAGGCGCTGCAGCAGCTCTTGCAGTGGGTGGGCGACTTCGTGCTGTACCTGCTGGCCAGCCTAC
CCAACCAGGGTTCCCTGCTGAGGCCGGGCCACAGCTTTCTGCGGGACGGCACCTCGCTGGGCATGCTTCGGGAAT
TGATGGTGGTCATCCGCATCTGGGGCCTTCTGAAGCCCAGCTGCCTGCCCGTGTATACGGCCACTTCGGATACCC
AGGACAGCATGTCCCTGCTCTTCCGCCTGCTCACCAAGCTCTGGATCTGCTGTCGCGATGAGGGCCCAGCGAGCG
AGCCGGACGAGGCGCTGGTGGATGAATGCTGCCTGCTGCCCAGCCAGCTGCTTATCCCCAGCCTGGACTGGCTGC
CAGCCAGCGACGGCCTGGTCAGCCGCCTGCAGCCCAAGCAGCCCCTTCGTCTGCAGTTTGGCCGGGCGCCCACGC
TGCCTGGCAGTGCTGCCACCCTGCAGCTCGACGGCCTCGCCAGGGCCCCAGGCCAGCCCAAGATCGACCACCTGC
GGAGGCTGCACCTTGGCGCTTGCCCCACGGAGGAATGCAAGGCCTGCACCAGGTGCGGCTGTGTCACCATGCTCA
AGTCGCCCAACAGAACCACGGCGGTGAAGCAGTGGGAGCAGCGCTGGATCAAGAACTGCCTGGCTGTTGAAGGCC
GTGGGCCGGACGCCTGCGTGACCAGCAGAGCTTCTGAGGAAGCCCCTGCCTTTGTCCAGCTGGGCCCGCAGTCCA
CACACCACTCTCCCAGGACCCCCAGATCCCTGGACCATCTGCATCCAAAGGACCGTCCG**TGA**

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FIGURE 243

GAAGGCCCTGCCGGGCGGCGGCGGCGGCGACAGCGTGCGAGCCATGGTCGCGCTGGAGAACCCCGAGTGCGGCCC
GGAGGCGGCGGAGGGCACCCCGGGCGGGCGGCGGCTGCTGCCCCTTCCCAGCTGCCTGCCTGCCCTAGCCAGCTC
CCAGGTGAAGAGACTCTCGGCTTCCAGGCGGAAACAGCACTTCATCAACCAGGCAGTGCGGAACTCAGACCTCGT
GCCCAAGGCCAAGGGGCGGAAGAGCCTCCAGCGCCTGGAGAACACCCAGTACCTCCTGACCCTGCTGGAGACAGA
CGGGGGCCTGCCTGGCCTGGAGGATGGGGACTTGGCACCCCCTGCATCACCAGGCATCTTTGCCGAGGCCTGCAA
CAACGCCACCTATGTGGAGGTCTGGAACGATTTCATGAACCGCTCCGGGGAGGAGCAGGAGCGGGTTCTTCGCTA
CCTGGAGGATGAGGGCAGGAGCAAGGCGCGGAGGAGGGGCCCTGGCCGTGGGGAGGACCGGAGGAGAGAGGACCC
CGCCTATACACCCCGCGAGTGCTTCCAGCGCATCAGCCGGCGTCTGCGAGCCGTCCTCAAGCGCAGCCGCATCCC
CATGGAAACGCTGGAGACCTGGGAGGAGCGGCTGCTTCGGTTCTTCTCCGTGTCCCCCCAGGCCGTGTACACAGC
AATGCTAGACAACAGCTTCGAGAGGCTTCTGCTGCACGCTGTCTGCCAGTACATGGACCTCATCTCAGCCAGTGC
TGACCTGGAGGGGAAGCGGCAGATGAAGGTCAGTAATCGGCACCTGGATTTCCTGCCGCCGGGGCTGCTCCTGTC
CGCCTACCTGGAGCAGCACAGCTGATGGCGGCCCCGCGGAGACCCCGCTGCCACCTCGCCCAGCCATCAAGCCCT
CCGATACCTTCGGCTAAAATATCTTTCATATTTTTAGAATTTGTCCTCGGAAACCTTTTTCGCTTGGGGTGGTCT
CTCTCACTCTGCCCCCTCCTCACGCAGCTCTTGGCAGTCAACAGACGCTGGCGGCTGGGGCTGCCCATGCCATCC
CAGCTCCAAGCTTCCCACTCCAGGACTTGTGTTTGGGTGGGGAGACCTGACCTGGGCATGTTCCTGTTTCTTCAT
CGTTGAGCTTTTCTGGCCCGGTCTGAAGCTCAAGTGAGGAGGGGGAGGCTGGGTTTTTATCACTTTTAATGAATT
TGGTGTGATTTGTTGTAGATTTTTAAATTTCCCTTTTGGAGAGAAAAACCAAAAAAACTCGCCCCACTGGTAAAA
CATGGGTCTTGGTCCCAGCCCCTGCTCAGCCCCTCCCAGTTTTTAGCTTGA**ATG**AGGGTGGGGTCTCTGGGACCC
TGCCCCTCATGCCAGAAGCATCTTGTGTTGTATATGTGTGCGCGCGTGTGCCCTGAGACCCAGGACAGAAGCCAC
GGTCCTAAGAGCCGGTTTTATCCTCGTCATTCTGCGTGTCCTCCCCCACGCCACCTGTGTCGGGGCTCAGGGTCT
CCTGCTTTATATGAGCCCCCTTCCTTTCCTCCCCTCCTTTATGCTGGGGGTCCAGGACTTCCAGCCAGAAGCCTC
TGCCCTTGCACTACCTTGTCTGTCACCCCATCCCGTGTCCCCTCGTCCCCCAGCCTGACTCCTGCC**TGA**TAGCTC
CTGTGTCCCCATGCTGGTCCTCCTGGCCCAGGCTGCAGGAGCCAGGCTGGGGGGCCTCCGCACCCCCTTGCTGCG
TGTGGGTAATTGTGTTTTGGGGGAAAGTGGGGAATTTAATAAATTTCTGGTGCTC

FIGURE 244

GCATGCCCCATCAGCCTTCAGCTTGAGCCCGGCGGCCCCCGCCCCCGCCCCCTGCCACCCTGCACTGCCCCGGCT
CCCCCGCGGCCCCCACGCTGCAGTGCGGCCGGGCCCCCTCCCCGCAGGGGCCGCCCCCGCCGCCCACCCCTAGCG
CCCGTGGTGGTGGTGGTGGTGGTGGTGGTGGCCCGGGCCGCAGGGCC**ATG**AAACTACAGGCCGTGATGGAGA
CGCTGTTGCAGCGGCAGCAGCGGGCGCGCCAGGAGCTGGAGGCCCGGCAGCAGCTGCCCCCCGATCCCCCTGCTG
CACCCCCCGGCCGGGCCCGGGCTGCCCCCGACGAGGACAGAGAGCCCGAGAGTGCCCGGATGCAGCGGGCTCAGA
TGGCCGCACTGGCAGCCATGCGGGCTGCAGCTGCGGGCCTGGGACACCCAGCCAGCCCCGGCGGCTCTGAGGATG
GGCCCCCAGGCTCGGAGGAGGAGGACGCGGCCCGGGAGGGGACACCGGGCTCACCCGGGCGAGGCAGAGAAGGGC
CAGGAGAGGAGCACTTTGAGGACATGGCCTCCGACGAGGACATGAAGCCCAAATGGGAGGAGGAGGAGATGGAGG
AAGACCTCGGGGAGGATGAGGAGGAGGAGGAGGAGGATTACGAGGATGAGGAGGAGGAGGAGGACGAGGAGGGGC
TGGGCCCCCCAGGCCCTGCCAGCTTGGGCACCACGGCACTGTTCCCCCGAAAGGCCCAGCCACCCCAGGCCTTCC
GCGGCGATGGCGTTCCCAGGGTGCTGGGGGGCCAGGAGCGGCCGGGGCCTGGCCCTGCCCACCCCGGAGGGGCCG
CCCACGTAGCCCCGCAGCTGCAGCCGCCTGACCACGGCGACTGGACTTACGAGGAGCAGTTTAAGCAGCTCTACG
AACTCGACGGGGACCCCAAGAGGAAGGAATTCCTGGATGACTTGTTCAGCTTCATGCAGAAGCGAGGGACACCTG
TGAACCGCATCCCCATCATGGCCAAACAGGTCCTTGACCTGTTCATGCTGTACGTGCTGGTGACGGAGAAGGGCG
GCCTCGTGGAGGTCATCAACAAGAAGCTGTGGCGTGAGATCACCAAGGGCCTCAACCTGCCCACGTCCATCACCA
GTGCAGCCTTCACCCTGCGGACCCAATACATGAAGTACCTGTACCCCTACGAGTGTGAGAAGCGGGGCCTCAGTA
ACCCCAATGAGCTCCAGGCAGCCATAGACAGCAACCGACGGGAGGGCCGGCGCCAGAGCTTTGGTGGCTCCCTCT
TTGCCTACTCGCCAGGCGGGGCACACGGCATGCTCTCCTCACCCAAGCTACCCGTGTCCTCCCTGGGCCTGGCCG
CAAGCACCAATGGCAGCTCCATCACCCCCGCCCCTAAGATCAAGAAAGAGGAGGACTCAGCCATCCCCATCACAG
TCCCTGGCCGCCTGCCTGTGTCCCTGGCGGGCCACCCTGTGGTGGCAGCCCAGGCAGCAGCTGTGCAAGCAGCAG
CCGCCCAAGCAGCTGTGGCCGCACAGGCAGCTGCCCTGGAACAGCTGCGGGAGAAGCTGGAGTCTGCAGAGCCTC
CGGAGAAGAAGATGGCCCTGGTGGCCGATGAGCAGCAACGGCTGATGCAACGTGCACTCCAGCAGAACTTCCTGG
CCATGGCGGCCCAGCTGCCCATGAGCATTCGGATCAACAGCCAAGCCTCCGAAAGCCGCCAGGACTCTGCTGTGA
ACCTGACGGGCACCAACGGCAGCAACAGCATCAGCATGTCGGTGGAGATCAACGGCATCATGTACACAGGAGTTC
TGTTTGCTCAGCCGCCGGCCCCCACGCCAACCTCTGCTCCCAACAAAGGAGGCGGCGGCGGCGGCAGCAGCA
GCAACGCAGGCGGCCGGGGAGGAAACACCGGAACCAGCGGCGGCCAGGCTGGGCCAGCGGGGCTGTCCACACCCT
CCACATCTACCTCAAATAACTCGTTGCCT**TAA**CCGCATCACTCCCCACCCGCCACCCACCCTGGAGCCCGCCGGC
CTGGGCAGGGGGTCCAGGTGGGCCACACAGGGGCCAGGATGGCGGAAGATACGGGTGGGGAGGGAAGATATCCAG
AAAGGAGCCACAGCTGACGCCAAAAAGAAAAGAAAAAAGATATATATATATATATATATATATACACGTATATAT
ATAAAGAGAATTTAATAAAACAGGGGAAAACCAAGGAACACTTGAATTTCTCAGGTTTTGGACATTCAGAGAGAT
GAATTGTGAGAACAGCAAAGAAATCCATCAGAAAAACAGAAAGAGGCAGACGTTTCCCAGGGCGTTCAGGCAGCC
CTGATGGACCGAAGGCTCTGGTGTCTGGTTTGGCCCCACAGCAGTGTGGGCCGATCCTGTTTACCTCATACATCC
CTGCACTGTGTGTTTTCATTTTTGTCTGCTTTAGTTCTCTTTTATTTTCTATTCACCACACACTCACCACTCCCA
GCTTCTCGTGTCCAGTGAAACCCCTGAACCAAGATCACTGAATTTTTGTTTTTTTCTTGTTGCTTTGGGAAATTT
TTTTTTCTCTGTAGGGTTTTTAAGAGGTTTCGGGGGTTTTGTTGTGTAAATATTCTATTTTATTCTTGGGGGGAT
CAAACCTTAGGAAAAGGATATCTATATATCTATATAGCTATATATTTGTGTTCCTTCAGGGAAACTGGTCTTGAA
AAAGCAAGAAAAAAAAGCAAAAAA

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FIGURE 245

GGCAAGATGGCGGCGCCCATGGAGGTGGCCGTGTGTACGGACTCGGCGGCCCCGATGTGGAGCTGCATCGTGTGG
GAACTTCACTCGGGCGCCAACCTGCTCACCTACCGCGGCGGCCAGGCGGGACCCCGCGGCCTGGCGCTGCTCAAT
GGCGAGTATCTGCTGGCGGCGCAGCTGGGCAAGAATTACATCAGCGCCTGGGAGCTCCAGCGGAAGGACCAGCTC
CAGCAGAAGATCATGTGCCCCGGGCCTGTCACCTGTCTGACTGCATCACCCAATGGTCTCTACGTCCTGGCAGGA
GTTGCAGAAAGCATCCACCTGTGGGAGGTCTCCACCGGGAACCTTCTGGTCATCCTGAGTCGACACTACCAGGAC
GTCTCCTGCCTTCAGTTCACAGGGGACAGCAGCCACTTCATCTCAGGGGGCAAGGACTGCCTGGTGCTGGTTTGG
AGCCTCTGCAGCGTGCTGCAGGCCGACCCCTCCAGGATTCCGGCGCCCAGGCACGTCTGGTCTCACCACGCGCTC
CCCATCACGGACCTGCACTGCGGCTTTGGGGGCCCCCTGGCCCGGGTGGCCACCTCCTCACTGGACCAGACGGTG
AAGCTATGGGAGGTCTCCTCGGGGGAGCTGCTGCTCTCCGTCCTCTTTGACGTGTCCATCATGGCAGTGACCATG
GACCTGGCTGAGCACCATATGTTCTGCGGGGGCAGTGAGGGCTCCATCTTCCAGGTCGACCTCTTCACCTGGCCC
GGACAGAGGGAGAGGAGCTTCCACCCAGAGCAGGACGCCGGGAAGGTCTTCAAAGGGCACAGGAACCAGGTGACT
TGCCTGTCAGTGTCCACTGACGGCAGCGTGCTGCTCTCAGGCTCCCACGACGAGACCGTGCGCCTCTGGGACGTG
CAGAGCAAGCAGTGCATCCGGACGGTGGCCCTCAAAGGCCCAGTCACCAATGCCGCCATCCTGCTGGCGCCCGTC
AGCATGCTGAGCTCAGACTTCAGGCCCAGCCTGCCGCTGCCCCACTTCAACAAGCACCTGCTGGGCGCCGAGCAC
GGGGACGAGCCGCGCCACGGGGGCCTCACTCTGCGCCTGGGCCTCCACCAGCAGGGCTCGGAGCCCAGCTACCTG
GACCGCACGGAGCAGCTGCAGGCCGTCCTGTGCAGCACCATGGAGAAGAGCGTGCTCGGCGGCCAGGACCAGCTG
CGCGTCCGTGTGACGGAGCTGGAGGACGAGGTGCGCAACCTGCGCAAGATCAATCGGGACCTGTTCGACTTCTCC
ACGCGCTTCATCACGCGGCCGGCCAAGTGAGGCCCGGAGACCCCGGCCCGAGGCGCCCAGGCCTGAGCCCCATGC
CTCCCAGCAACCAGGGCCCGCGGGTGTGGCCCCCACCAGCCCAGGCCTGGACTCTCCTCAGTTCTGTGTCGTGTT
CGGGTTTTTCCTCTGTGACTGGGCCGTCTTGGTGTCTCGTGGCACGCGTCACAGTGGTGCTAGTCTGTTTTTAAC
AAAAGAGGATGAAAAGCC

FIGURE 246

GCTCTTGCCCGGCGTGGCGACTCGCTAGCGTCAGCAGCGCCGCAGCCGGACGAGAAAGCGGAAGATGGCGGCGGC
GGCCGGGAGGCCGTGAGGAGAGCGGCGGCTGCGAGGGCGGCCGATGGCGGCCGGGAGGCGCCCTCGGACACTTGC
GGGTCGTTAGGGCGCGACGCTGGGAGGCATGTCGGAGCACGTGGAGCCCGCAGCTCCGGGGCCCGGGCCCAACGG
CGGCGGCGGCGGCCCGGCCCCCGCGCGCGGGCCTCGCACCCCCAATCTCAACCCCAACCCCCTCATCAACGTGCG
CGACCGGCTCTTCCACGCGCTGTTCTTCAAGATGGCTGTCACCTATTCGCGGCTCTTCCCGCCCGCCTTCCGCCG
TCTCTTCGAGTTCTTCGTGCTGCTCAAGGCCCTGTTTGTGCTCTTCGTCCTGGCCTACATCCACATCGTCTTCTC
CCGCTCGCCCATCAACTGCCTGGAGCATGTGCGTGACAAGTGGCCGCGTGAGGGCATCCTGCGTGTGGAAGTGCG
GCACAACTCGAGCCGCGCGCCCGTCTTCCTACAGTTCTGTGACAGCGGCGGCCGCGGGAGCTTCCCGGGCCTGGC
CGTGGAACCAGGCAGCAACCTGGACATGGAAGATGAGGAGGAGGAAGAGCTGACCATGGAGATGTTTGGGAACAG
CTCCATCAAGTTTGAGCTGGACATCGAGCCCAAGGTGTTCAAGCCGCCGAGTAGCACAGAGGCCCTGAATGACAG
CCAGGAGTTCCCCTTCCCCGAGACGCCCACCAAAGTGTGGCCGCAGGACGAGTACATCGTGGAGTACTCACTAGA
GTATGGCTTCCTTCGCCTGTCGCAGGCCACCCGCCAGCGCCTGAGCATCCCCGTCATGGTGGTCACCCTGGGTGA
GTCTGAGCTGCTGGGCTTGGGGAGCTCCATGGCGGGGCCTCCCCTCCTCCCTCGGGTCTCCTCCTGCTGGTGCGG
GACGGGGGGCTGTGCAGGAAGCACTGGGGTCTGCCCCGCCCCAGGCACGCTTCCCAGGGCTGGGGTCCTGG**ATG**G
GTTTCCTAAGAATGGGCAGGGCCAGGAAGCAGGCCAGGCCTCAGCAATGGAGCCAGCTGGGGCAGGGCCCAGGGG
GTGGCCTGGGCGGGGCTCCCGGCTCCCTGATTCACCCACCCGCAGACCCCACGCGGGACCAGTGCTTCGGGGACC
GCTTCAGCCGCCTGCTGCTGGATGAGTTCCTGGGCTACGATGACATCCTCATGTCCAGCGTGAAGGGCCTGGCCG
AGAACGAGGAGAACAAGGGCTTCCTGCGGAATGTGGTGTCGGGCGAGCACTACCGCTTTGTGAGCATGTGGATGG
CGCGGACGTCCTACCTGGCCGCCTTCGCCATCATGGTCATCTTCACGCTGAGCGTGTCCATGCTGCTGCGGTACT
CACACCACCAGATCTTCGTCTTCATCGTGGACCTGCTGCAGATGCTGGAGATGAACATGGCCATCGCCTTCCCCG
CAGCGCCCCTGCTGACCGTCATCCTGGCCCTCGTCGGGATGGAGGCCATCATGTCGGAGTTCTTCAACGACACCA
CCACCGCCTTCTACATCATCCTCATCGTGTGGCTCGCGGACCAGTATGACGCCATCTGCTGCCACACCAGCACCA
GCAAGCGGCATTGGCTGCGGTTCTTCTATCTCTACCACTTCGCCTTCTATGCCTATCACTACCGCTTCAATGGGC
AGTATAGCAGCCTGGCCCTGGTCACCTCCTGGCTCTTCATCCAGCATTCCATGATCTACTTCTTCCACCACTACG
AGCTGCCTGCCATCCTGCAGCAGGTCCGCATCCAGGAGATGCTGCTTCAGGCGCCGCCACTGGGCCCCGGGACCC
CCACGGCGCTGCCCGATGACATGAACAACAACTCGGGCGCCCCGGCTACAGCCCCTGACTCTGCCGGCCAGCCCC
CCGCCCTGGGCCCCGTCTCGCCTGGGGCCAGCGGGAGTCCCGGGCCTGTGGCAGCGGCGCCCAGCTCCCTGGTGG
CCGCGGCAGCCTCAGTGGCAGCAGCTGCCGGTGGTGACCTGGGTTGGATGGCAGAGACCGCTGCCATCATCACAG
ACGCCTCCTTCCTGTCCGGCCTGAGCGCCTCCCTCCTGGAGCGGCGTCCAGCCAGCCCGCTGGGCCCTGCTGGGG
GCCTCCCCCACGCCCCCCAGGACAGTGTCCCCCCGAGTGACTCCGCAGCTTCTGACACAACTCCCCTGGGGGCTG
CGGTAGGCGGGCCTAGCCCGGCCTCCATGGCCCCAACGGAGGCGCCCTCGGAGGTGGGGTCC**TGA**GCCGCACAGC
TGAGCCGCCTCTGACCCCTGCTGGCTGGGCCTGACCTTCCCGAGCCCGTGGGGGTGGGGGAGGCCAGCCACCTCC
TTCCTCTGGGACTGCCCAGCCTGTGTCGGGGGCTTTCAGGGTTTCGTGGGGTTTGCCCGGAAGGCGGCTTTCCTC
CCCCTGGTGTGAGGTCGCGCCCGAGGCTTGTACCCGCTAGTGAGGTGTTTGAGCTGGTCAGCAAGGAGAGGGGGT
GGGGTTCCGCGGAAGGTTCTGGAGGGGTCTTGGTAGGTCTGCAGTGAACCGTCCTGAGGATGGAGTGGGGTCCCA
TGGTGCAGGTCTCTGAGCAAGGCGGAGGTGTGGAGGAGAGGCCGGCTTGGGGTGGGGCCTCGCGCCCTAGTGCCG
GCCGGCCTCAGCCCGGCTCTGCCTGGTGCTCCCTGCAGTGCCTTCTCCATGGCCCCGCCCTCCCCGCGTGTGCGC
CAGGCTTGGGGTCCCCGGGAGAGCAGAGCTTGCGCCTCGGGCATAGGGACGTGGGGTGCAGGCGCCAACATCAGT
GGCAGCAGCCAGGGCCGTGGTCCAGTCCCACTCGGGGATGGAGTGGGCCGGCGGCCAAACCAGTCACTCGGGGAG
GAATGCGGAGGAGCGCTCATTCCATTCTATTTAATTGCAGTGTACAAAATTGTGTTTGTATATAGAATAAACTGT
CTGTTGACAGCGGC

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FIGURE 247

ATGAGCTCCACGCAGTTCAACAAGGGCCCCTCGTACGGGCTGTCGGCCGAGGTCAAGAACCGGGCTCCCGCGAAT
CTTGGGGAGCACCCAGGTCTGAGATCTGGGGGACGAGTGACCCATTCCCCCCCCCCAACATCTAGGGGTAGTTGGG
TCTGACTTCGTCCCCTCGCCATGGCCCCAGGACCCCCACGTGTCCTTACAGCTGACTTCTGCAGGGGAAACTGCC
TCTGCACGCTCTGAGGGCACCGGCCCTGCCAGCCCCAACAGCCACCTGCCCGGCGGCACTCCAGGGCCGGCAGAC
TGGAGGGAGAATTCCTGCTTCCCCGCTGGGCCATCTGCACCCTGCATTCATAGAGCCCCCCGTGCAGTGGGGTGG
GCACCCTGCCGCACCCTGCATACAGCCGGC**TAA**

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FIGURE 248

ACCAGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTCACCGGCCTCT
CCATCGGCCCCGACTTCCAGAAGGGCCTGAAGGATGGAACTATCTTATGCACACTCATGAACAAGCTACAGCCGG
GCTCCGTCCCCAAGATCAACCGCTCCATGCAGAACTGGCACCAGCTAGAAAACCTGTCCAACTTCATCAAGGCCA
TGGTCAGCTACGGCATGAACCCTGTGGACCTGTTCGAGGCCAACGACCTGTTTGAGAGTGGGAACATGACGCAGG
TGCAGGTGTCTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTGGACATTGGCGTCA
AGTACTCGGAGAAGCAGGAGCGGAATTTCGACGATGCCACCATGAAGGCTGGCCAGTGCGTCATCGGGCTGCAGA
TGGGCACCAACAAATGCGCCAGCCAGTCGGGCATGACTGCCTACGGCACGAGAAGGCATCTCTATGACCCCAAGA
ACCATATCCTGCCCCCCATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGTGCCAGCCAGGTGG
GCATGACGGCTCCCGGGACCCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGACAACTCCTCCA
TGTCCCTGCAGATGGGCTACACGCAGGGCGCCAACCAGAGCGGCCAGGTCTTCGGCCTGGGCCGGCAGATATATG
ACCCCAAGTACTGCCCGCAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGGCGACTGCCCGGACCCGGGGG
AGGTCCCTGAATATCCCCCTTACTACCAGGAGGAGGCCGGCTACTGAGGCTCCCAGCACGCTCTCTCCCCACATC
GTCTGCCCATCTGGGTTTTTGGGTTTTTCTGTGTTTTCATCTTTTTTTTTTTTTCTTAACCCGTTCAGTGCTGC
CAGTCAACCAAGGGTCTGTGAGTGTCAGCGTGGGATCAGGCAGCAGAGCTTTTTTCCCCTTTGCCTTGATCCTTC
GCAAGGCTGAGCCACTGGGCTGTGGGGGAAGGGGTCAAGGCCATATCCCAATACGTGTAGGGCGAGGGTCCCTGC
TGGCACATTCAGGCTGTGCTGGGAAGAAGAGACCTGGGCTTGGAAGGAACCGGTCCCCGACGGTTTCTGCTTGCC
TCGCCTCTTCCCCCTTTTGTCAGCTGAGCAGTTTGTGGTTTCTATGCCCGCAAGTTTCAGGAAGTATTCACAAAA
GAAAAATACATTTTTTCCCCCAGGGGTGGGGCAAGGACAGTGGAGAGAGTGCTAGGAAATGAGTCCCCTGGGAAA
GGGGACCGGGCCGTGATGTTAAATATCTCCGGCTCCCAAGTGACTGGATTTGCCTAGGACCTTCAGACCAACAGA
CTTCAGACCCTCAGACCTGCCCCGGGGCCAGGTGGAGAAAGTGAGGGCCGTACAAGGAAGTGAAATTCTGAGTTG
TTGGGGCTAAGCCTGACCCCCTCTCCATGCTCCCCGCCCCAACCCACTCTGGCCTCAGTAGATTTTTTTTTCAGT
TGTGGTTGTTGCCCAGGCTGGAGTGCAGTGGCGCCATCTTGGCTCACTGCACCTCCACCTTCCGGGCTCAAGCGA
TTCTCCAGCCTCAGCCTCCTGAGTAGCTAGGACTGCAGGTGCTCCACCACGCCCGGCTAATTTTTGTATTTTTAG
TAGAGATGGGGTTTCCCCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGTGATCCGCCCGCCTCCGC
CTCCCCAAGCGCTGAGATTACAGGTGTGAGCCACCGTGCCCAGCCCCTCAGTAGGTTTTAAGGAGCCCCCAGCCC
TCCTCCCTTCTGGGCCCGACCAGCTTATACTGCTCCATCTTCCCCGGCCACATGCCCCGCCAAGTACTGCACAGG
GACCCCCCACCCAGGGGACCTGCTCCGTGAGATAATGTGAAATACGACTGTGGACCAAACGCAATAAAACCTCTG
TTTGTACGAAG

FIGURE 249A

CGCCTCCCCGAAGCCTTTTCCTGTTGGGGGGAGGGCCCGCCAGTGACGGCCGGGCCTGTCACGTGGGCCTGACAG
CTGGGGAGGGGGTGGCCGGCGACAATGTGGTCCCGAAGCGGCCAGCGCCGGGAGCTGCAGCGCTGAGACCCCCAG
CCCGCCCCCCTCGGGCTCCCGGCCGGGGCCCCATC**ATG**TTCTCCAGGAAGAAACGAGAGCTCATGAAAACCCCTTC
CATCTCGAAAAAGAACCGCGCGGGAAGCCCCAGCCCGCAGCCCTCGGGGGAGCTGCCCAGGAAGGATGGGGCTGA
CGCGGTGTTCCCCGGACCAAGCCTGGAGCCGCCCGCTGGGTCCTCCGGCGTCAAGGCCACAGGGACCCTCAAGCG
GCCCACCAGCCTGAGCCGCCACGCCAGCGCGGCTGGCTTCCCCCTGTCGGGTGCTGCCTCCTGGACACTGGGCCG
GAGCCACCGGAGCCCACTGACAGCCGCCAGCCCGGGCGAGCTGCCCACCGAGGGTGCCGGCCCGGACGTCGTCGA
GGACATCTCCCATCTGCTGGCGGACGTGGCCCGCTTCGCTGAGGGCCTTGAGAAACTTAAGGAGTGTGTGTTGCG
TGACGACCTCCTTGAGGCCCGCCGCCCGCGGGCCCACGAGTGCCTGGGTGAGGCTCTGCGTGTCATGCATCAGAT
CATCTCCAAGTACCCGCTGCTGAACACCGTGGAGACGCTCACCGCAGCCGGCACCCTCATTGCCAAGGTCAAAGC
CTTCCATTATGAGAGCAACAATGATCTGGAGAAACAGGAGTTCGAGAAGGCCCTGGAGACGATTGCTGTGGCCTT
CAGTAGCACAGTGTCCGAGTTCCTCATGGGTGAAGTGGACAGCAGCACCCTCCTAGCAGTGCCTCCTGGGGACTC
GAGCCAGTCCATGGAAAGCCTGTATGGACCGGGCAGTGAGGGCACGCCTCCCAGCCTGGAAGACTGTGACGCCGG
CTGCCTGCCCGCCGAGGAGGTGGACGTGCTGCTACAGCGCTGTGAGGGGGGCGTGGATGCCGCACTGCTGTATGC
CAAGAACATGGCCAAGTACATGAAGGACCTCATCAGCTACCTGGAGAAGCGGACGACGCTGGAGATGGAGTTTGC
CAAGGGCCTGCAGAAGATCGCTCACAACTGCAGACAGAGCGTCATGCAGGAGCCCCACATGCCGCTCCTGTCCAT
CTACTCGCTGGCCCTGGAGCAGGACCTGGAGTTCGGCCACAGCATGGTGCAGGCGGTGGGCACCTTGCAGACCCA
GACCTTCATGCAGCCCCTGACCCTGCGGCGGCTTGAACACGAGAAGCGCAGGAAGGAGATCAAGGAGGCCTGGCA
CCGTGCCCAGAGGAAGCTGCAAGAGGCGGAGTCCAACCTGCGCAAGGCCAAGCAGGGTTACGTGCAGCGCTGCGA
GGACCACGACAAGGCTCGCTTCCTCGTGGCCAAGGCGGAGGAGGAGCAGGCTGGCAGCGCGCCGGGAGCAGGCAG
CACGGCCACCAAGACCCTGGACAAGCGGCGGCGGCTGGAGGAGGAGGCCAAGAACAAGGCGGAGGAAGCTATGGC
CACCTACCGCACCTGCGTGGCCGACGCGAAGACGCAGAAGCAGGAGCTGGAGGATACCAAGGTGACGGCGCTGCG
GCAGATCCAGGAGGTCATCCGGCAGAGCGACCAAACCATCAAGTCGGCCACGATCTCCTACTACCAGATGATGCA
TATGCAGACGGCGCCGCTGCCCGTGCACTTCCAGATGCTGTGTGAGAGCAGCAAGCTGTATGACCCAGGCCAGCA
GTACGCCTCCCACGTGCGCCAGCTGCAGCGGGACCAGGAGCCCGATGTGCACTACGACTTTGAGCCCCACGTCTC
CGCCAACGCCTGGTCCCCCGTCATGCGTGCCCGGAAGAGCAGCTTCAACGTGAGTGATGTGGCGCGGCCGGAGGC
TGCCGGGAGCCCCCCAGAAGAAGGCGGGTGCACTGAGGGCACACCTGCCAAGGACCACAGGGCCGGGCGAGGACA
CCAGGTTCACAAGTCATGGCCGCTCTCGATCTCAGACTCGGACAGTGGGCTGGACCCCGGCCCTGGCGCAGGGGA
CTTTAAGAAGTTCGAGCGGACGTCATCCAGTGGTACCATGTCGTCCACGGAGGAGCTGGTGGACCCAGACGGTGG
AGCCGGGGCTTCAGCCTTTGAGCAGGCTGACCTCAACGGCATGACCCCCGAGCTGCCGGTGGCCGTGCCCAGTGG
ACCGTTCCGCCACGAGGGGCTGTCCAAGGCGGCCCGTACTCACCGGCTCCGGAAGCTCCGCACGCCCGCCAAGTG
CCGCGAGTGCAACAGCTACGTCTACTTCCAGGGTGCTGAGTGTGAAGAGTGCTGCCTGGCCTGCCACAAGAAATG
TCTGGAGACGCTGGCCATACAGTGCGGGCACAAGAAGCTGCAAGGCCGCCTGCAGCTGTTCGGCCAGGACTTCAG
CCACGCGGCCCGCAGCGCCCCCGACGGCGTGCCCTTCATCGTCAAGAAGTGCGTCTGCGAGATCGAGCGGCGGGC
GCTGCGCACCAAGGGCATCTACCGGGTCAATGGGGTAAAGACACGCGTGGAGAAGCTGTGCCAGGCCTTCGAGAA
CGGCAAGGAGCTGGTCGAGCTGTCGCAGGCCTCGCCCCACGACATCAGCAACGTCCTCAAGCTCTACCTGCGTCA
GCTTCCCGAGCCGCTCATCTCCTTCCGCCTCTACCACGAGCTCGTAGGGCTGGCCAAGGACAGCCTGAAGGCAGA
GGCCGAGGCCAAGGCGGCGTCCCGGGGCCGGCAGGACGGCTCGGAGAGCGAGGCAGTGGCGGTGGCCCTGGCAGG
TCGGCTGCGGGAGCTCCTGCGGGACCTGCCGCCTGAGAACCGGGCCTCGCTGCAGTACCTGCTGCGTCACCTACG
CAGGATCGTGGAGGTGGAGCAGGACAACAAGATGACCCCCGGGAACCTGGGCATCGTGTTCGGGCCCACGCTGCT
TCGGCCACGGCCCACCGAGGCCACCGTGTCCCTCTCCTCCCTGGTGGATTATCCCCATCAGGCCCGCGTCATCGA
GACTCTCATCGTCCACTACGGCCTGGTCTTCGAGGAGGAGCCGGAGGAGACCCCCGGGGGCCAGGACGAGTCATC
CAACCAGCGAGCTGAGGTAGTCGTCCAGGTGCCGTACCTGGAGGCGGGCGAGGCGGTGGTCTACCCGCTGCAGGA
GGCGGCGGCGGACGGGTGCAGAGAATCCCGAGTTGTGTCCAACGATTCGGACTCGGACCTAGAGGAGGCCTCCGA
GCTGCTGTCCTCATCGGAGGCCAGTGCCCTGGGCCACCTCAGCTTCCTGGAGCAGCAGCAGAGCGAGGCCAGCCT
AGAGGTGGCTTCTGGCAGCCACAGCGGCAGTGAGGAGCAGCTGGAGGCCACAGCCCGGGAGGACGGGGACGGGGA
CGAGGACGGCCCGGCCCAGCAGCTCTCAGGATTCAACACCAACCAGTCCAACAACGTGCTGCAGGCCCCACTGCC
CCCCATGAGGCTCCGTGGCGGGCGGATGACACTGGGCTCCTGCAGGGAAAGGCAGCCGGAATTCGTG**TGA**GCTGG

FIGURE 249B

GGTGGGGCTGGGACCACAGGTGGCTTCTCTCTTGCCTGCTCCTGTCCCTCCAGCACGTCCCCTGCACCACGGCAT
AGCTTAGGTGCGCCGTCCTGGGGTCGCTGCCGAGAGCGCCTGGACTTCGACGTCCCACCAGCGGGCGCCTCCTCC
CAGAGGCTTCCAGGAGCACGAGGGCCTTGCGGCACAGGACTGTGCCCTGTGCTGTCCCCTGCACCCCGGCTCAGC
TGAGCTGGGGAACACTGCTGTCGTGTGAAGTCACAGTGGCCTTGTTGGTGCCCACAGGGCTGTGTGGATGGAGGA
AGCTGTCCCTGCCCAGTGCATCCCCCAGGTCATCACGGGGACGCAGGAGGCAGGCCCTGCCCTGCCCTCTCCTCA
CAGGTCTGTTGCAGGGACTCCAGAAACCATTCTGGGAGCCGTGGATGGGGGCGGAGCTGGGGTTTGGTGCAGTTT
CCAGGGTGCAGTACAGCAGGGCCTGAATACTGGCCCTGGACTCCCTTTTCCAGAACACCAGGTGTGGCCACCTGG
GGCTCAGGTACACAGTGGGGTCTCTCGGAAGCCACCGTGTGGTTCTTTCACAGGCACGTTTATTTTGCTGAAATA
AAAAGTTTTTAATCGGG

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FIGURE 250

GGCGGCGGCGGCGGAGGCTGCCATGGACGACGAGGAGGAGACGTACCGGCTCTGGAAAATCCGCAAGACCATCAT
GCAGCTGTGCCACGACCGTGGCTATCTGGTGACCCAGGACGAGCTTGACCAGACCCTGGAGGAGTTCAAAGCCCA
ATCTGGGGACAAGCCGAGTGAGGGGCGGCCGCGGCGCACGGACCTCACCGTGCTGGTGGCCCACAACGATGACCC
CACCGACCAGATGTTTGTGTTCTTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCG
CATGCAGGAGGAGAACATCACACGGGCTCTCATCGTGGTGCAGCAGGGCATGACACCCTCCGCCAAGCAGTCCCT
GGTCGACATGGCCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCAGGAGCTGCTCATCAACATCACGGAGCACGA
GCTAGTCCCTGAGCACGTCGTCATGACCAAGGAGGAGGTGACAGAGCTGCTGGCCCGATATAAGCTCCGAGAGAA
CCAGCTGCCCAGGATCCAGGCGGGGGACCCTGTGGCGCGCTACTTTGGGATAAAGCGTGGGCAGGTGGTGAAGAT
CATCCGGCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGGCTGGTGCAGTAGCTACCGCCTGACAGCCCCTA
GAGGCGGACACACAGCGACCCCCATCCCTGCAGGACAAACGCCCCTGCCCTGCCAGAATCCGGCCCCCACAGCTC
TCACGGCTGCTGCTCCTCTGGACTCCCCAAGGCAGGTGGCCTCCACCCACGTTCTCCCGTCCTGGGGTGAGGCTT
CCTGTGGCCCAGCCCGCCCCATTCACCTGTGGATTTGTGCGAGATGCAGCCTCAGAAGGAACAAGGCCCCCAGAG
GGAGGTCACCTGGGGGCAGCTGGTGCCGGGTCTTCACCCAGACCACGCTGGGTCCCCTCTGTTGGGGGTTTGGGG
TCCGGGTCTCCCACCAGCCACTGCTTCCTCCTGGGCCCTCGGCCTTCCACCCCTCGTCTTCCCTCCCTCGGGGGC
CCTGATGCGTGGCGGCCCCCGCCCGGCCTCGGCTCTTTACTCCATTCACAGCCATGCACGCGCTCAAGCCACCAG
GGTGCGAGATGCCAGCTCTGGAGTTCTCGGTTGTTGTAGGAGGTTGGGTGTTTTCAAATGGTAAAGATGTTTTGA
GCAAATAAATTTGCTTGATACAG

FIGURE 251

GGAGGCGCGGAAAGCCGACGCGCGTCCATTGGTCGGCTGGACGAGGGGAGGAGCCGCTGGCTCCCAGCCCCGCCG
CGATGAGCCTCGGCCGCCTTTGCCGCCTACTGAAGCCGGCGCTGCTCTGTGGGGCTCTGGCCGCGCCTGGCCTGG
CCGGGACCATGTGCGCGTCCCGGGACGACTGGCGCTGTGCGCGCTCCATGCACGAGTTTTCCGCCAAGGACATCG
ACGGGCACATGGTTAACCTGGACAAGTACCGGGGCTTCGTGTGCATCGTCACCAACGTGGCCTCCCAGTGAGGCA
AGACCGAAGTAAACTACACTCAGCTCGTCGACCTGCACGCCCGATACGCTGAGTGTGGTTTGCGGATCCTGGCCT
TCCCGTGTAACCAGTTCGGGAAGCAGGAGCCAGGGAGTAACGAAGAGATCAAAGAGTTCGCCGCGGGCTACAACG
TCAAATTCGATATGTTCAGCAAGATCTGCGTGAACGGGGACGACGCCCACCCGCTGTGGAAGTGGATGAAGATCC
AACCCAAGGGCAAGGGCATCCTGGGAAATGCCATCAAGTGGAACTTCACCAAGTTCCTCATCGACAAGAACGGCT
GCGTGGTGAAGCGCTACGGACCCATGGAGGAGCCCCTGGTGATAGAGAAGGACCTGCCCCACTATTTCTAGCTCC
ACAAGTGTGTGGCCCCGCCCGAGCCCCTGCCCACGCCCTTGGAGCCTTCCACCGGCACTCATGACGGCCTGCCTG
CAAACCTGCTGGTGGGGCAGACCCGAAAATCCAGCGTGCACCCCGCCGGAGGAAGGTCCCATGGCCTGCTGGGCT
TGGCTCGGCGCCCCCACCCCTGGCTACCTTGTGGGAATAAACAGACAAATTAG

FIGURE 252A

GCCCGAAACCCGGAAGTGAGCGGCGGCAGCTGCGAGGCTCGGAGAAACAGGCGCCGCGGGCTCCGCGCCCGGCCG
GACCCGGGCCCGAGATCATGATGCTGCCGCCACCGCCGCCACCACGGAGCGAGAAGCCCAGATAGACGCCCCGGC
GGCCCCGGGTCCTGGAGTCCCGCCGCCTGCTGCCCGGCCGAGGACCCCACCCCGCCTGCCGCCCG**ATG**CTTGCAG
TGGGGCCCGCCATGGACAGGGATTACCCGCAGCATGAACCCCCGCCGGCGGGCAGCCTCCTGTACAGCCCGCCGC
CCCTGCAGAGCGCCATGCTGCACTGCCCCTACTGGAACACCTTCTCGCTGCCGCCATACCCTGCCTTCTCCAGCG
ACAGCCGCCCGTTCATGAGCTCCGCCTCCTTCCTCGGCAGCCAGCCCTGCCCAGACACCAGCTATGCCCCCGTGG
CCACCGCCTCCAGCTTGCCACCAAAGACCTGCGACTTTGCTCAGGACTCCTCCTATTTTGAGGACTTCTCCAACA
TCTCCATCTTCTCCTCGTCCGTGGACTCCCTGTCGGACATCGTGGACACGCCCGACTTCCTGCCGGCTGACAGCC
TCAACCAGGTGTCCACCATCTGGGACGATAACCCTGCCCCCTCCACCCACGATAAGCTGTTCCAGCTCAGCAGGC
CGTTTGCAGGCTTCGAGGACTTTCTGCCCTCCCACAGCACCCCGCTTCTCGTCAGCTACCAGGAGCAGAGTGTGC
AGAGCCAGCCAGAGGAGGAGGACGAGGCTGAGGAGGAGGAGGCGGAGGAGCTGGGGCACACAGAGACCTACGCCG
ACTACGTGCCGTCCAAGTCCAAGATCGGGAAGCAGCACCCAGACCGCGTGGTGGAGACCAGCACACTGTCCAGCG
TCCCACCCCCAGACATCACCTACACCCTGGCCCTGCCCTCGGACAGCGGGGCCCTGTCTGCCCTGCAGCTAGAGG
CCATCACCTACGCCTGCCAGCAACACGAGGTCCTGCTCCCCAGCGGGCAGCGCGCGGGCTTTCTCATCGGCGATG
GGGCCGGCGTGGGCAAAGGCCGGACGGTGGCCGGAGTCATCCTGGAGAACCACCTGCGCGGCCGGAAGAAAGCAT
TGTGGTTCAGCGTCTCCAACGACCTCAAGTACGATGCGGAGCGCGACCTGCGGGACATCGAAGCCACGGGCATCG
CGGTGCACGCGCTCAGCAAGATCAAGTACGGTGACACCACTACCTCAGAGGGCGTCCTCTTCGCCACCTACTCCG
CCCTGATTGGGGAGAGCCAGGCCGGCGGCCAGCACCGCACTCGCCTCCGGCAGATCCTGGACTGGTGTGGGGAGG
CCTTCGAGGGCGTCATCGTGTTCGACGAGTGTCACAAAGCCAAGAATGCCGGCTCCACCAAGATGGGCAAGGCTG
TGCTAGACCTGCAGAACAAGCTGCCCCTGGCCCGCGTGGTCTACGCCAGCGCCACAGGTGCCTCTGAGCCTCGGA
ACATGATCTACATGAGCCGCTTGGGTATCTGGGGCGAGGGCACACCCTTCCGGAACTTTGAGGAGTTCCTGCACG
CCATCGAGAAGAGGGGCGTTGGCGCCATGGAGATCGTGGCCATGGACATGAAGGTCAGCGGCATGTACATCGCAC
GCCAGCTCAGCTTCTCCGGCGTCACCTTCCGCATCGAGGAGATCCCGCTGGCCCCAGCCTTCGAGTGCGTCTACA
ACCGCGCGGCCCTGCTGTGGGCCGAGGCCCTGAACGTGTTCCAGCAGGCGGCCGACTGGATCGGCCTGGAGTCGC
GCAAGTCCCTGTGGGGCCAGTTCTGGTCGGCACACCAGCGCTTCTTCAAGTATCTGTGCATCGCAGCCAAGGTGC
GCCGGCTGGTGGAGCTGGCCCGAGAGGAGCTGGCGCGAGACAAGTGCGTGGTCATCGGGCTGCAGTCCACGGGCG
AGGCGCGCACGCGGGAGGTGCTGGGGGAGAACGATGGGCACCTCAACTGCTTCGTCTCGGCCGCTGAAGGCGTGT
TCCTGTCGCTAATTCAGAAGCACTTTCCGTCCACCAAGAGAAAGCGGGACAGAGGAGCGGGCAGCAAGCGGAAAC
GGCGACCTCGGGGACGCGGGGCCAAAGCCCCCCGGCTGGCGTGCGAGACAGCGGGCGTCATCCGCATCAGTGACG
ACAGCAGCACGGAGTCGGACCCTGGCCTGGACAGCGACTTCAACTCCTCCCCCGAGTCCCTGGTGGATGACGACG
TTGTCATCGTTGATGCAGTCGGGCTCCCCAGTGACGACCGGGGACCCCTGTGCCTCCTGCAGAGAGACCCGCATG
GCCCCGGGGTCCTGGAGCGGGTGGAGCGGCTGAAGCAGGATCTGCTGGACAAAGTGCGGCGGCTGGGCCGGGAAC
TGCCAGTCAACACCCTGGACGAGCTCATCGACCAGCTGGGCGGCCCCCAGCGGGTGGCGGAGATGACCGGCAGGA
AAGGCCGCGTGGTGTCCAGGCCCGACGGGACGGTGGCCTTCGAGTCGCGGGCAGAGCAGGGTCTGTCCATCGACC
ACGTGAACCTCAGGGAGAAGCAGCGCTTCATGAGCGGCGAGAAGCTCGTGGCCATCATCTCGGAGGCCTCCAGCT
CGGGTGTCTCCCTCCAAGCCGACCGCCGTGTCCAGAACCAGCGGCGCCGCGTGCACATGACCTTGGAGCTGCCGT
GGAGCGCCGACCGCGCCATCCAGCAGTTCGGCCGCACCCACCGGTCCAACCAGGTCTCCGCGCCAGAGTATGTCT
TCCTCATCTCGGAGCTGGCCGGGGAGCGCCGGTTCGCCTCCATCGTGGCCAAGCGCCTGGAGAGTCTGGGGGCCC
TGACCCACGGAGACCGCCGCGCCACGGAGTCCCGTGACCTCAGCAAGTACAACTTTGAGAACAAGTATGGCACCC
GGGCCCTGCACTGTGTCCTCACCACCATCCTGAGCCAGACTGAGAACAAAGTGCCTGTGCCCCAGGGATACCCTG
GAGGGGTCCCCACCTTCTTCCGGGACATGAAGCAGGGCCTGCTGTCTGTGGGCATTGGTGGCCGGGAGTCCCGGA
ATGGCTGCCTGGACGTGGAGAAGGACTGTTCCATCACCAAGTTCCTGAACCGCATCCTGGGGCTGGAGGTGCACA
AGCAGAACGCCCTGTTCCAGTACTTCTCAGACACCTTCGACCACCTCATCGAGATGGACAAGCGGGAGGGCAAAT
ACGACATGGGCATCCTGGACCTTGCTCCCGGTATCGAGGAGATCTACGAGGAGAGCCAGCAGGTGTTCCTGGCTC
CCGGGCACCCGCAGGACGGGCAGGTGGTCTTCTACAAGATCAGCGTGGACCGCGGCCTGAAGTGGGAGGACGCCT
TTGCCAAGTCGCTGGCGCTGACGGGCCCCTATGACGGCTTCTACCTCTCCTACAAGGTCCGCGGTAACAAGCCCA
GCTGCCTGCTGGCGGAGCAGAACCGCGGCCAGTTCTTCACGGTGTACAAGCCCAACATCGGCCGGCAGAGCCAGC
TGGAGGCCCTGGACAGCCTCCGCCGCAAGTTCCACCGGGTCACCGCGGAGGAGGCCAAGGAGCCCTGGGAGAGTG

FIGURE 252B

GCTACGCTTTGTCGCTGACGCACTGCAGCCACAGCGCCTGGAACCGGCACTGCCGGCTGGCGCAGGAGGGTAAGG
ACTGCCTGCAGGGGCTGCGGCTGCGGCACCACTACATGCTGTGCGGCGCGCTGCTGCGCGTGTGGGGCCGCATCG
CCGCCGTCATGGCCGACGTCAGCAGCAGCAGCTACCTGCAGATCGTGCGGCTGAAGACCAAGGACAGGAAGAAGC
AAGTGGGCATCAAGATCCCCGAGGGCTGCGTGCGCCGGGTGCTGCAGGAGCTGCGGCTGATGGATGCGGACGTGA
AGCGCAGGCAGGCGCCCGCCCTGGGCTGCCCCGCCCCGCCCGCCCCGCGCCCGCTGGCGCTGCCTTGCGGCCCCG
GAGAGGTGCTGGACCTCACCTACAGCCCCCCGGCCGAGGCCTTCCCGCCGCCCCCGCACTTCTCTTTCCCGGCGC
CGCTGTCCCTGGACGCCGGCCCCGGCGTCGTGCCGCTGGGCACCCCCGACGCCCAGGCCGACCCTGCGGCCCTCG
CGCACCAGGGCTGCGACATCAACTTCAAGGAGGTGCTGGAGGACATGCTGCGCTCGCTGCACGCGGGGCCGCCCT
CCGAGGGCGCGCTGGGGGAGGGCGCGGGGGCGGGGGGCGCGGCGGGCGGTGGTCCCGAGCGGCAGAGCGTGATCC
AGTTCAGCCCACCCTTCCCCGGCGCCCAGGCTCCTCTC**TGA**CACGCCTTTAGGCGAAACATGCCCCAAGACACAG
GGACCGTTTCTCCCCTAGGAGCAGCGGTGGGGAGCAGGGCCAAGGTCCCCTGACCACTGCTCAGAGGAGCCCTAG
GCCCTGGCCGCAGTGCCTTCAGCGCCCGACCCGGGCCCCCACCTGGTCAGCCCTGGCGGGGCCCACTCAGGACAG
CTGGGGGCCGGGGCGTGGCAGGGCCCTCTCTGTGCCTCTCCTCCCAAGTAGGAAGGGGCTCCGGGTGGCTGCTCT
GGGACTGGGCACCCACAAGGGCTCAGTGGGCCCAAACCCTTGAAATCCGTGAAACCGGGTGGTCCCAAGAGCTAG
AAACTCAGGAAACCCCAGGTGCTCAGGGCCCCGCGTCTCGGGGGCTCCGTGGGGCAGACCCCTGCTAATATATGC
AATTCTCCCTCCCCCAGCCCTTCCCTGACCCCTAAGTTATTGCCCGCTCACCTCTCCCAGGCCCCAGGCCGCGGA
GCTGGCAGGGTGGCGCCTGCGGTTTCTATGTATTTATAGCAAGTTCTGATGTACATATGTAAAGGACTTTTTTAA
AT

FIGURE 253

CCCAGGGTCCCCGAGGACGAAGTTGACCCTGACCGGGCCGTCTCCCAGTTCTGAGGCCCGGGTCCCACTGGAACT
CGCGTCTGAGCCGCCGTCCCGGACCCCCGGTGCCCGCCGGTCCGCAGACCCTGCACCGGGCTTGGACTCGCAGCC
GGGACTGACGTGTAGAACAATCGTTTCTGTTGGAAGAAGGGTTTTTCCCTTCCTTTTGGGGTTTTTGTTGCCTTT
TTTTTTTCTTTTTTCTTTGTAAAATTTTGGAGAAGGGAAGTCGGAACACAAGGAAGGACCGCTCACCCGCGGACT
CAGGGCTGGCGGCGGGACTCCAGGACCCTGGGTCCAGC**ATG**GAGGTGGTGGACCCGCAGCAGCTGGGCATGTTCA
CGGAGGGCGAGCTGATGTCGGTGGGTATGGACACGTTCATCCACCGCATCGACTCCACCGAGGTCATCTACCAGC
CGCGCCGCAAGCGGGCCAAGCTCATCGGCAAGTACCTGATGGGGGACCTGCTGGGGGAAGGCTCTTACGGCAAGG
TGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTCAAGATCCTCAAGAAGAAGAAGTTGCGAAGGA
TCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTCAACTACTGAGGAGGTTACGGCACAAAAATGTCATCCAGC
TGGTGGATGTGTTATACAACGAAGAGAAGCAGAAAATATATATGGTGATGGAGTACTGCGTGTGTGGCATGCAGG
AAATGCTGGACAGCGTGCCGGAGAAGCGTTTCCCAGTGTGCCAGGCCCACGGGTACTTCTGTCAGCTGATTGACG
GCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAACCTGCTGCTCACCACCGGTG
GCACCCTCAAAATCTCCGACCTGGGCGTGGCCGAGGCACTGCACCCGTTCGCGGCGGACGACACCTGCCGGACCA
GCCAGGGCTCCCCGGCTTTCCAGCCGCCCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACA
TCTGGTCGGCTGGGGTCACCCTCTACAACATCACCACGGGTCTGTACCCCTTCGAAGGGGACAACATCTACAAGT
TGTTTGAGAACATCGGGAAGGGGAGCTACGCCATCCCGGGCGACTGTGGCCCCCCGCTCTCTGACCTGCTGAAAG
GGATGCTTGAGTACGAACCGGCCAAGAGGTTCTCCATCCGGCAGATCCGGCAGCACAGCTGGTTCCGGAAGAAAC
ATCCTCCGGCTGAAGCACCAGTGCCCATCCCACCGAGCCCAGACACCAAGGACCGGTGGCGCAGCATGACTGTGG
TGCCGTACTTGGAGGACCTGCACGGCGCGGACGAGGACGAGGACCTCTTCGACATCGAGGATGACATCATCTACA
CTCAGGACTTCACGGTGCCCGGACAGGTCCCAGAAGAGGAGGCCAGTCACAATGGACAGCGCCGGGGCCTCCCCA
AGGCCGTGTGTATGAACGGCACAGAGGCGGCGCAGCTGAGCACCAAATCCAGGGCGGAGGGCCGGGCCCCCAACC
CTGCCCGCAAGGCCTGCTCCGCCAGCAGCAAGATCCGCCGGCTGTCGGCCTGCAAGCAGCAG**TGA**GGCTGGCCGC
CTGCAGCCCGTGTCCAGGAGCCCCGCCAGGTGCCCGCGCCAGGCCCTCAGTCTTCCTGCCGGTTCCGCCCGCCCT
CCCGGAGAGGTGGCCGCCATGCTTCTGTGCCGACCACGCCCCAGGACCTCCGGAGCGCCCTGCAGGGCCGGGCAG
GGGGACAGCAGGGACCGGGCGCAGCCCTCCCCCCTCGGCCGCCCGGCAGTGCACGCGGCTTGTTGACTTCGCAGC
CCCGGGCGGAGCCTTCCCGGGCGGGCGTGGGAGGAGGGAGGCGGCCTCCATGCACTTTATGTGGAGACTACTGGC
CCCGCCCGTGGCCTCGTGCTCCGCAGGGCGCCCAGCGCCGTCCGGCGGCCCCGCCGCAGACCAGCTGGCGGGTGT
GGAGACCAGGCTCCTGACCCCGCCATGCATGCAGCGCCACCTGGAAGCCGCGCGGCCGCTTTGGTTTTTTGTTTG
GTTGGTTCCATTTTCTTTTTTTCTTTTTTTTTTTAAGAAAAAATAAAAGGTGGATTTG

FIGURE 254

GTCCTCCTCGCCCTCCAGGCCGCCCGCGCCGCGCCGGAGTCCGCTGTCCGCCAGCTACCCGCTTCCTGCCGCCCG
CCGCTGCC**ATG**CTGCCCGCCGCGCTGCTCCGCCGCCCGGGACTTGGCCGCCTCGTCCGCCACGCCCGTGCCTATG
CCGAGGCCGCCGCCGCCCCGGCTGCCGCCTCTGGCCCCAACCAGATGTCCTTCACCTTCGCCTCTCCCACGCAGG
TGTTCTTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCCACGCTGACCGGAGCCTTCGGCATCCTGGCGGCCC
ACGTGCCCACGCTGCAGGTCCTGCGGCCGGGGCTGGTCGTGGTGCATGCAGAGGACGGCACCACCTCCAAATACT
TTGTGAGCAGCGGTTCCATCGCAGTGAACGCCGACTCTTCGGTGCAGTTGTTGGCCGAAGAGGCCGTGACGCTGG
ACATGTTGGACCTGGGGGCAGCCAAGGCAAACTTGGAGAAGGCCCAGGCGGAGCTGGTGGGGACAGCTGACGAGG
CCACGCGGGCAGAGATCCAGATCCGAATCGAGGCCAACGAGGCCCTGGTGAAGGCCCTGGAG**TAG**GCGGTGCGTA
CCCGGTGTCCCGAGGCCCGGCCAGGGGCTGGGCAGGGATGCCAGGTGGGCCCAGCCAGCTCCTGGGGTCCCGGCC
ACCTGGGGAAGCCGCGCCTGCCAAGGAGGCCACCAGAGGGCAGTGCAGGCTTCTGCCTGGGCCCCAGGCCCTGCC
TGTGTTGAAAGCTCTGGGGACTGGGCCAGGGAAGCTCCTCCTCAGCTTTGAGCTGTGGCTGCCACCCATGGGGCT
CTCCTTCCGCCTCTCAAGATCCCCCCAGCCTGACGGGCCGCTTACCATCCCCTCTGCCCTGCAGAGCCAGCCGCC
AAGGTTGACCTCAGCTTCGGAGCCACCTCTGGATGAACTGCCCCCAGCCCCCGCCCCATTAAAGACCCGGAAGCC
TG

FIGURE 255

CAGCAGCGGGCGGCCGCGGCGTGACATCGGCACCATCCTGCAGATCCTGAACGACCTCCTGAGCGCCACCCGGCA
CTACCAGGGCATGCCCCCTTCGCTGGCCCAGCTCCGCTGCCACGCCCAGTGCTCCCCGGCCTCACCGGCCCCCGA
CCTGGCCCCCAGAACTACCTCCTGCGAGAAGCTCACGGCTGCCCCCTCAGCCTCCCTGCTGCAGGGCCAGAGCCA
GATCCGCATGTGCAAGCCCCCGGGGGACCGGCTTCGGCAGACAGAAAACCGCGCCACGCGCTGCAAGGTGGAACG
GCTGCAGCTGCTTCTGCAGCAGAAACGGCTCCGTAGAAAGGCCCGGCGGGACGCGCGGGGTCCGTACCACTGGTC
ACCCAGCCGCAAGGCCGGCCGCAGCGACAGCAGTAGCAGCGGGGGCGGCGGCAGCCCCAGCGAGGCCTCCGGCTT
GGGCCTCGACTTCGAGGACTCCGTGTGGAAGCCAGAAGTCAACCCTGACATCAAGTCAGAGTTCGTGGTGGCTTA
GGATCTTCGGATCGGCCACCCTCGCCCCTCGCACCCCAGCCCAGGGCGGCGGGGACTCCGAGAGCCCCGGAGAGA
ACGTGGCCCAGCCCTGGAGGGCAGGCGGCCACTCCCCCAGCCAGAAGTCTTTTTTTCTTTTCTTCTTTTTTATTA
TTTTTTTCTTTTTTTAAAAAGTTCTGACCGTGGTTTCCTGGACTCTTC**ATG**GGCTTTGCTTCCTACCTCCTTCAC
CCTTCACTCCTGCCCTCCTCTTCCTCCTCCTCCTCCTCCTCCGTCTGTCTCCTTTCACCTCTGCGCCAGGTCGGT
CCTCCCTGCCAACCTTCCCCAGCTCCAATATGTAGCAGTCTCTCTGGATGGCGGAGAGTGAAGGAGACGGAGAAA
CGCGCCCCATCCCTTCCGCCGCCTCCTTTCCCCCCCGACCCTATTCAGGTTTTAAGTCAAAAATGTCGATATGTC
ATTATGCACTTTACAGATGAGGGGAGGGGCCGCAGTGCGCAGAACCCACCCCACCCCCCAGTGCAGACTTCGGGG
TCTCCACCCCAGGCCAGCAGCGCCCACTGGGCTACAGCAAGCCAACAGGTCACAGAAGCCAACGAGGGGACTGTT
TCTCTTCCACTCCTATCCTCTTTTCTTGATCTTTTTTTTGCATTTTCCTTCATTTCTTTAACAAGGAGAGCAAAG
CTGTTT**TAG**CAGAGGCTGGGGCTGAGGTCCCCATGGGGTTTGGGTGCAGGGGCATGGCACCCTTTCCTGTCGGGA
AGGGAGAGGGGAACTACCCCCCCAGCCTGCCCTCCGCCCCGCCCCAGCCGGCGGACTGTGCTGTTTCCTCCGCCC
CCACTCCCGTGTTTTCTGACCTCCTGCCTGAGTTTGGGGTATTTATAGACTATTAATTTTCTGACTGAGCCAATA
GTGGTTGGGGAACTCTTGAAAAAGGGGAGAGAATGGCTGGGTGCTGGGGAGTTCCCCCCTCCGAGCCCTCCTTCC
CGGCCCAACCTGAGGGATGTGGATTTGGGACTGTCTGGGGGCCCCTCCTGCAGCGAGGATGGGAGGGGGTGCTGA
GCTGTGAATCCCCTGGGCAGGGGGCGACAACTCCGTGTAGCATTAACCCCCGTGGCGGGGTCCGCTGCTGGTCTA
ATTTGGACCCCCTGCCTCTCAGTGCCCCTGCCCTAGGGGTGTCTGTCTCCAGAGGGGAGGGACAAATCCCCTACT
GGGGCCATTTCAATGGGGTAGTTTTTGGATTTTTTTCCCCACTCACTTTTTATTTTTTAATGATAATGGAGATGT
CTGGACCCTTCCTCACCCCACCTGTCGGTCTTGTCCTGGCTCTGCCTGTCCCCCACCGTTGTTCTCGTAGGTGAA
CCCCAGGTCCTCAACTCCCCCCCTTTATGTGTTGAAAGTTAATGGTTTCAGATGTGAACATCACGTGTTATAACT
GTAGCGCTGTAAATTTTTTTGTGGGAGGGTGGGCAGGGAGGGGTCCCAGAGGGTAGAGCTCAAGGATTTTGGGTT
TTGTTTTGTTTTCATTTTTCCAAAAAAAAAAGAAAAAAAAATAGAAAAAAAAGGAGTAAAAGGGGCGGGTTTGTT
TTTTGAAGAACTGTCTTGGATACCTATTTAAATGTGTGTTCTGTTTTGTTTTTTAACGATTTTTAAATAACGTCT
GTGCCTCCACTGGTTGAGGGTGGAACCTCCAGGCAGGAACCGGCTCGCCACCCTCTGCCCGGTAAGGGCTGCCCA
AGAAAGCATTACCCGCCCTCGGGGGGTCGGGCTGTGGGGGTCCCGGCACCTGGCGTGAGTTTCATGTATGAAAAC
ATAAAATTGAAAAAAAAAAAAAAACCTACACGAGCACCGTGATTTCAAGTAATAAACAGAAAATGAAACAC

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FIGURE 256

GAGGCTCGGGTCGTTGTGGTGCGCTGTCTTCCCGCTTGCGTCAGGGACCTGCCCGACTCAGTGGCCGCCATGGCA
TCAGATGAAGGCAAACTTTTTGTTGGAGGGCTGAGTTTTGACACCAATGAGCAGTCGCTGGAGCAGGTCTTCTCA
AAGTACGGACAGATCTCTGAAGTGGTGGTTGTGAAAGACAGGGAGACCCAGAGATCTCGGGGATTTGGGTTTGTC
ACCTTTGAGAACATTGACGACGCTAAGGATGCCATGATGGCCATGAATGGGAAGTCTGTAGATGGACGGCAGATC
CGAGTAGACCAGGCAGGCAAGTCGTCAGACAACCGATCCCGTGGGTACCGTGGTGGCTCTGCCGGGGGCCGGGGC
TTCTTCCGTGGGGGCCGAGGACGGGGCCGTGGGTTCTCTAGAGGAGGAGGGGACCGAGGCTATGGGGGGAACCGG
TTCGAGTCCAGGAGTGGGGGCTACGGAGGCTCCAGAGACTACTATAGCAGCCGGAGTCAGAGTGGTGGCTACAGT
GACCGGAGCTCGGGCGGGTCCTACAGAGACAGTTATGACAGTTACGCTACACACAACGAGTAAAAACCCTTCCTG
CTCAAGATCGTCCTTCCAATGGCTGTGTGTTTAAAGATTGTGGGAGCTTCGCTGAACGTTAATGTGTAGTAAATG
CACCTCCTTGTATTCCCACTTTCGTAGTCATTTCGGTTCTGATCTTGTCAAACCCAGCCTGACCGCTTCTGACGC
CGGGATGGCCTCGTTACTAGACTTTTCTTTTTAAGGAAGTGCTGTTTTTTTTTGAGGGTTTTCAAAACATTTTGA
AAAGCATTTACTTTTTTGACCACGAGCCATGAGTTTTCAAAAAAATCGGGGGTTGTGTGGGTTTTTGGTTTTTGT
TTTAGTTTTTGGTTGCGTTGCCTTTTTTTTTTTTAGTGGGGTTGGCCCCATGAAGTGGGTGCCCCACTCACTTCTC
TGAGATCGAACGGACTGTGAATCCGCTCTTTGTCGGAAGCTGAGCAAGCTGTGGCTTTTTTCCAACTCCGTGTGA
CGTTTCTGAGTGTAGTGTGGTAGGACCCCGGCGGGTGTGGCAGCAACTGCCCTGGAGCCCCAGCCCCTGCGTCCA
TCTGTGCTGTGCGCCCCACAGTAGACGTGCAGACGTCCCTGAGAGGTTCTTGAAGATGTTTATTTATATTGTCCT
TTTTTACTGGAAGACGTACGCATACTCCATCGATGTTGTATTTGCAGTGGCTGAGGAATTCTTGTACGCAGTTTT
CTTTGGCTTTACGAAGCCGATTAAAAGACCGTGTGAAATG

FIGURE 257

CAGCGGAGGCGATACGGCCTCCTCGCCAACACTGAGGACCCCACGGAGGCGGCCCTTCCAGCAGCCATGAGGGAA
GGACAGGAGATGGGGCCCACCCCAGTGCCCAGCAACCCCCTGCTCCACCGCTCATTCCCCTGCTGGCCCCGGGGC
TGGTCTCACCCAGTGCCAACCCGAGAGCTCCTTTTGGAACCTGCACAGCCCGCCGACCTGTTGCCACCTGCACCC
ACCGCTGGACCATGCAGCCTCGCCTCCTGGATGCTGTCCCAGCCTGGCCGAGGGTCCCAGGTGAAGACTGGAGGG
ACCCCAACAGCCACCGCCCAGGACGCTGAGGCTCCCTTGCCTGACTGTGACTTGTGCCTCTCTCCTGCCCCCGTG
GGGACATGGCAGCCCAGAGCCAAGGCTGGGTGGGCAGGTGACCCAAGGAACCTTTCTGGGAACACCTTCTCGCCG
GGCTGGGAACAATAAATGCAGCCATGTCTCTGC

FIGURE 258A

GCGGTGGCGGAGGCGGACACATTGGCGTGAGACCTGGGAGTACGTTGTGCCAAATCATTGCCACTTGCCACATGA
GTGTAAATGATGGCGGATGCCAAGTATGTCCTCTGCCGATGGGAAAAGCGATTATGGCCTGCGAAGGTTTTGGCC
CGAACCGCGACTTCAACAAAAAATAAGAGAAGAAAGGAATATTTTCTAGCTGTGCAAATCCTCTCTCTAGAGGAA
AAAATTAAGGTGAAAAGCACTGAAGTTGAGATCCTAGAGAAGTCTCAAATTGAAGCCATTGCTTCCTCGTTAGCC
TCACAGAATGAGGTTCCTGCGGCACCCCTGGAAGAACTGGCCTACAGACGGTCGCTTCGCGTGGCTCTGGACGTT
CTGAGCGAGGGCTCGATTTGGAGTCAAGAAAGCTCTGCAGGGACAGGTAGAGCTGACCGGTCTCTGCGAGGGAAG
CCCATGGAGCATGTCTCCTCGCCCTGTGATTCGAACTCCTCATCTCTTCCCCGCGGAGACGTGTTGGGCAGTTCC
AGACCTCACAGGAGGAGGCCATGTGTGCAACAAAGCCTGTCAAGTTCGTTCACTTGTGAAAAGGACCCCGAGTGC
AAAGTGGACCACAAGAAGGGGCTCAGGAAAAGTGAAAACCCAAGAGGCCCGTTGGTCCTCCCAGCTGGAGGTGGT
GCCCAAGATGAGAGTGGGTCCAGAATCCACCACAAAAATTGGACTCTTGCAAGTAAGAGGGGAGGAAACTCAGCG
CAGAAGGCTAGCTTGTGCCTGAATGGATCTTCCCTTTCAGAGGACGACACGGAGAGAGACATGGGGAGCAAAGGA
GGCAGCTGGGCAGCCCCGTCCTTGCCCTCCGGGGTCAGGGAGGACGATCCCTGTGCCAACGCTGAGGGACACGAC
CCCGGTCTGCCGTTGGGCAGCCTCACTGCGCCCCCAGCCCCTGAGCCCTCGGCCTGCTCAGAGCCTGGAGAATGC
CCTGCGAAAAAGAGGCCGCGCCTGGATGGCAGCCAAAGGCCGCCTGCCGTGCAGCTGGAGCCCATGGCAGCAGGG
GCCGCACCATCCCCCGGGCCGGGGCCAGGGCCCAGAGAGTCTGTGACCCCGCGCAGCACCGCCAGGCTGGGCCCG
CCTCCCTCCCACGCCTCTGCGGATGCAACCAGATGTCTTCCTTGCCCGGATTCCCAGAAGCTGGAGAAAGAGTGC
CAGTCTTCCGAAGAGTCCATGGGGTCTAATTCCATGCGTTCTATCCTGGAGGAAGACGAGGAAGACGAGGAGCCA
CCAAGAGTCCTTTTATACCACGAACCACGTTCGTTTGAAGTAGGAATGCTAGTCTGGCATAAACATAAAAAATAC
CCCTTCTGGCCAGCAGTGGTCAAAAGCGTCAGGCAGAGAGATAAGAAAGCAAGTGTGCTATACATCGAAGGACAC
ATGAACCCGAAAATGAAAGGTTTCACAGTGTCTCTTAAAAGTTTAAAGCACTTTGATTGTAAAGAGAAACAGACG
CTTCTGAATCAAGCCAGGGAGGACTTCAACCAGGACATCGGCTGGTGTGTCTCCCTCATCACCGACTACAGGGTC
CGGTTAGGCTGCGGGTCTTTTGCTGGCTCTTTCCTGGAATATTACGCGGCTGATATAAGCTATCCTGTCCGAAAA
TCCATCCAGCAGGACGTCTTGGGGACCAAGCTTCCTCAACTGAGCAAGGGGAGCCCCGAGGAGCCCGTGGTGGGG
TGCCCCCTGGGGCAGAGGCAGCCCTGCCGGAAAATGCTCCCCGACCGCTCGCGGGCCGCCCGGGACCGGGCCAAC
CAGAAGCTGGTGGAGTACATTGTGAAGGCCAAGGGCGCGGAGAGCCACCTGCGGGCCATCCTAAAGAGCAGGAAG
CCATCTCGCTGGCTGCAGACCTTCCTGAGCTCCAGCCAGTACGTGACCTGTGTGGAGACCTACCTGGAGGATGAG
GGGCAGCTGGACCTGGTGGTGAAGTACCTGCAGGGCGTCTACCAGGAGGTGGGGGCCAAGGTGCTCCAGCGCACC
AACGGCGACCGGATCCGGTTCATTCTGGACGTGCTTCTGCCCGAGGCCATCATCTGTGCGATCTCTGCGGTGGAC
GAGGTGGACTACAAGACGGCTGAGGAGAAGTACATCAAGGGGCCTTCGCTGAGCTACCGGGAAAAAGAAATATTT
GACAACCAGCTCCTTGAAGAGCGGAACCGGCGCCGTCGGTGAGGGAGCAGCCGGCTGTGCTGTCAGCGGGGCCTG
GCGGTGGAAGCGCCTCCAGTGTGCATGAGCGTGTCTGAAGATGGGGGGCTCAGGGGGCACGTTTGCGTTTGGACC
TGTCTGTGCGTTCTCCTGCGTGGCAGTCCTGATTTCCATGCTTCTGGAGAATCCATTTCGTTAACACTGAAAGCC
AGTTCTCTTTTCCTGGCAGTTTTTTTCATTTTATTTTTGGCATTTTTTACAAGATACCGTTCGGGAAAGGCTTTT
GAAAGGACGGAAGCGTATTCACTGTGCGCCAGTACTCCTGGCTGTGCTGTGGTTTCTCCCGACGTGCACATCGAT
CTCGTATGTGTGGCATCTGATATTAAACGGGAGGTTTTAAGAAGCGTCTGCCGTGATCATGGAGCTTCGGAAGCG
GGAATGGTTCTTCCGGGTTTGCTGTTTTGTCTGTTTCCCCCTTGTGTGGTTTCCGCCTGCGACAGTTCCAGAATT
TGCTCTCCCACTCAGTGTGCTCTGCAGCTGTGAGGAAACAGCCTTCGTTAGAGGCGGGAGCAGAGACGAGCCGCT
GCTCTGTGTCGTGTTTGCTGTGGCCGCAGGGAGAGGAGCAGGACACGCACCTTTCCAGGGGCCTCTGTGTCCCGC
ACTGTGTGTGAGTGGACCGCAGCGCGCAGCCACATGCCCTGGCTGCCATGGGCCAGACCGCCTCCACCTCCCCCG
CCCGCCTGGCCTGTCCTGAGTGCATTTCCCTGCACTGTGTCGTCACTGCACAGCCAGTCACCGCGGTCTCAGTCA
TCGGCGCGGATGGCTATGCTGGGGTCCCAGGGTGGCCGCAGCAGTCAGGGTCACTGTGGGAGCCCTGGGGTGGAG
TGACAAACCGCATTGTCCTGTGCCCGCCATGGCAGAAGCGCAGCCTTTGTATGGAGGCCCAACCGCGCTCCCGTC
TGGAGAAGCGGCTTCCGGGGTGTGGCTGCCGGGTCGGCTCTGGTCCACAGCACGGTGCCGGGGCTGCAGGTTGTT
GAGGGCTGTGACTCCGTGGGGCTCAGCCAGGCTCCAGCAGGGTCAGACGTGCTGTTAAGAGCAAAGCCACAGACG
ATGACTTGTCCATTCTCAGTGGATGCTCCAGGCTGTGCCTACACAGCAGTGCTGGTGACATGTCCAGGGTTCCAG
GGCCCGGTGGCCTGGGAGCTGCTTTCTCCCCACTGGCTGGGCTGCATCTGGCCCTGGCTGGAGGCCTTGCTTTGA
GGGGCTGTGACCCTCTTCCCCCAGGCCCTCCCCAGCCGACGACAGCCACCGGAGAGGAGATCGGAACACGATTGT
CTCAGATGCAGGGCGCTGTGCGGGACGAAGCCGCAAGGACTCTCGTATCGGGCCCTTGGGACTCGGGAGGTGCCA

FIGURE 258B

GAGGCGGCGGCTGCTCTGGACCTCGGTGTTCACTGACCTTTGTTTCACTTGCCTCTGCTCGACTCCGAGAGCAGG
AAACCCGGCCGTGGCCTGGCAGCTCCGCCTCCCATGCCCGCACGCTGGGGTCTGTCTTGTCTGGAGCAGTGGGGC
ACACCCCGGAGGAGGCGGGGGTCAGGGCTGTCGGCCTTGGCCCCCTGCTGGTCGCTGTTTCGGGGACTCGGGGCG
GCCAGTACCACCGCCTGAGGCGGGGCTCAGCAGCGTTGCATGTACGGGCCTCGTACTGCCTCATGGAAAATCCTC
CGGAGCCGCCCTCCATTGTGGGTTCCTGAGAGTAGGACACATTGCCATGGTTTTGTGGGAATCACGCGCCCCTGA
TGGAACTTTTCTGCTGTTGTGAAGTACTTTTATCCATTTGCTTCTCTGCTGACCTTGCCAAGTTGTTCGAGGTGG
AATTAAACACCTCCCAGACC

FIGURE 259

CTGCGCGCTGCGGTCCACTCACACACAGTGCGGGACACAGAGGCCCCTGGAAAGAGCACACTGAGTGGGAGAGCA
AATTCTGGAACTGTCGCAGGCGGAAACCACACAAGGGGGAAACAGACAAAACAGCAAACCCGGAAGAACCATTCC
CGCTTCCGAAGCTCCATGATCACGGCAGACGCTTCTTAAAACCTCCCGTTTAATATCAGATGCCACACATACGAG
ATCGATGTGCACGTCGGGAGAAACCACAGCACAGCCAGGAGTACTGGCGCACAGTGAATACGCTTCCGTCCTTTC
AAAAGCCTTTCCCGAACGGTATCTTGTAAAAAATGCCAAAAATAAAATGAAAAAAACTGCCAGGAAAAGAGAACT
GGCTTTCAGTGTTAACGAAATGGATTCTCCAGAAGCATGGAAATCAGGACTGCCACGCAGGAGAACGCACAGACA
GGTCCAAACGCAAACGTGCCCCCTGAGCCCCCCATCTTCAGACACGCTCATGCACACTGGAGGCGCTTCCACCGC
CAGGCCCCGCTGACAGCACAGCCGGCTGCTCCCTCACTGGCTTGTTATTTTGAGCATGTCCCCGGCGTGATGAAA
TCACGGCCTGTGTGCTCAGCCCAAGTAACTTCTCCATCAGCACCAGCACCATTCTCACAGGTCACGGGAGGCTTT
CATGGCAACTGGAAGCTGTGATGAACTCCTAACGGGTTTTGATGTCGGCAACCCAGACTCAAAAAAAAAAATCAG
GATGAAAGATTTCCACAGATGGGCGTGGAGCGGTGAAGAGGCTTCTGAGACGGAGGGAGAGGACAAACCAGCAGG
CTGGGTCCAGGTGTCCTGGCTCCGACCTTACCCCCTCCCCGGACCTCACTTATTCTTACGGCAAGCATGACGGGG
GAACC**ATG**AAGATCCAGCAGGAAAACACCCAGTTTCTGTATCCAAAGGCCTTTCCTGTTTTGGTAAGCCAGCTGG
GCCAACACTCCCTAAACAAGGCCAAATTCCACCTTTGTGCAGCTCTGCGGGGGTGGCCTGCCAATGCCACCGAGG
CCCCACACCTCCTCCCTGGCCTCTCCAGGGGCCCCTCCTGCCCTGCCCAGGGAGGACATGGGGCTGGTGAGGGAG
TTCAGTGTCTTCACCAGGAGTCTCCTGTGACTGTGGGCCCGGGAGACGTCGGTGGCTGCGCAAGCCACCCTGGCC
GGAGACCCTGTCCT**TGA**CTCTAGTTGAGTCTTCAGCCTGTCACTGCCCCGTGGGCCCCGCCTGGCTCCCAGCAAG
GCCTGGCCGCATGCCCAGAGACAGGATTAGGCGCTCTGGGGGCCAAACATCCAAGGGCAGCTAAGCACACGGATG
TGAGAGAAACATCTTGATCACAGCATTCTTCTGGCTGCTGGAAAGCACCGGGCCGTGCTGCTGCTTAATCTTGCT
GTATTTCTCACACAGCCATGGGGCTGTGGAAAGAGGGGAGGAAAGTGCAAAAAGCAAACATCAGCCCCTGCAAAA
AGAGATTAAGAACAGACACGGCCCAGGCACGTGCCCGTGGCCCCGTGCTGCCCACAGCGACCAGCTGGGAGACCC
GGGCACAGCCTTCCTGGGGGGCAGGAGTGACCCACAGGGTGAGTTCAGCGTATGTGATCAGCTCACCACCCAGCA
CCTGGGCCACCTCATGAGGGAGAGGGGCTGCGGCAGCCTGGAGTCAAACTGCCTGTGGGTGTGGAAATAGAAACT
GCAAGGCAGAGACGCAAGTGGCTGGAGATAGCGCCGGGAGCGGCCTACCGGTAGCTCAGCGAAGGCCCCTTGATG
TACTTCTCCTCAGCCGTCTTGTAGTCCACCTCGTCCACCGCAGAGATCGCACAGATGATGGCCTGTGAGAGGGCA
CGGGGCTCAATAGCAGCAGGCACTGCCCAACTGGCCCCAAGTGGCCTGCGGTTAAGAAGGCCGCAGGGAGCCTGG
GTCACCAGGTTCCAGCCTCCAGACATGGTCTAGCTCATGGTTCAGAAGGTGCAAACCTAGTCCATGAATCCCTGC
TTGTAATGATGTTTCTTAATTAAATCAGTACTATCTTTCGGACTAGACACAATAGCTCAGATCACTAAAAGCAGA
GAAGAAAAGGCAAGACCCAAACCCACAAGAGCATTTCTCAAAAATTTTAAGTTTTTTTTTTGGTGGCGGTTTTTT
CTGGTACAGAGTCTCGCCCTGTCGCCCAGGCTGGAGCGCAATGGCATAATCTCAGCTCACTGCAACCTCTGCCTC
CCGGGTTCAGGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGTACGCGCCACCACGCCCAGCTA
ATTTTTGTATTTTTAGTAGAAACGGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAGCTCCTGGCCTCATGATCC
ACCTGCCTCGGCCTCCCAAAGTGCTGGAATTACCGATGCGAGCCACCACACCCGGCCTTAAGTTTATTGTTATAA
AAAAAAAAGAGTATCCTGAATACACAATACATACCTGACATTAAGAAATCATCCCTATTTTTTACTTTTGTGATT
ATGGTAAACACATTTTTAACAGAGTCCATTCGGTTCAGAGCAGAGTCTCTCCCACTCGGCCCTGTGGACGTCGGG
GCCAGACTGTTCTCTGAGGTGGGGCTGTCCTAGGCGCTGCAGGGTGCTGAGCAGCGTCCCTGCCCCAACCC

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FIGURE 260

CCAAGATGGCGGTGCTGTCAGCTCCTGGCCTGCGCGGCTTCCGGATCCTTGGTCTGCGCTCCAGCGTGGGCCCGG
CTGTGCAGGCACGAGGTGTCCATCAGAGCGTGGCCACCGATGGCCCAAGCAGCACCCAGCCTGCCCTGCCAAAGG
CCAGAGCCGTGGCTCCCAAACCCAGCAGCCGGGGCGAGTATGTGGTGGCCAAGCTGGATGACCTCGTCAACTGGG
CCCGCCGGAGTTCTCTGTGGCCCATGACCTTCGGCCTGGCCTGCTGCGCCGTGGAGATGATGCACATGGCAGCAC
CCCGCTACGACATGGACCGCTTTGGCGTGGTCTTCCGCGCCAGCCCGCGCCAGTCCGACGTCATGATCGTGGCCG
GCACACTCACCAACAAGATGGCCCCAGCGCTTCGCAAGGTCTACGACCAGATGCCGGAGCCGCGCTACGTGGTCT
CCATGGGGAGCTGCGCCAACGGAGGAGGCTACTACCACTATTCCTACTCGGTGGTGAGGGGCTGCGACCGCATCG
TGCCCGTGGACATCTACATCCCAGGCTGCCCACCTACGGCCGAGGCCCTGCTCTACGGCATCCTGCAGCTGCAGA
GGAAGATCAAGCGGGAGCGGAGGCTGCAGATCTGGTACCGCAGGTAGCGCCGCCGCCGCCGCCGCCGGAGCCTGT
CGCCGTCCTGTCCCCAGCCTGCTTGTGTCCCGTGAGGTTGTCAATAAACCTGCCCTCGGGCTGCCGCC

FIGURE 261

CCCCGGCCCACAAGCCCCTGCAGGGAGCGGGCCCGGGCGGCGCGCGATCGAGGTCGGGTCGCCGTCCAGCCTGCA
GCATGAGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGCGCCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCCTATA
TGCACGCGCTGGCCGCCGCCGCCTCCTCCAAAGGGGGCCGGGTCCTGGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTCATCCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACACCAGTTCA
ACTTCATCAAGAACCACGCCTTTCGCCTGCTGAAGCCGGGGGGCGTCCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGAGACGCAGGTGCCCGCGCTGCTGGAGG
CCGGCTTCCGGAGGGAGAACATCCGTACGGAGGTGATGGCGCTGGTCCCACCGGCCGACTGCCGCTACTACGCCT
TCCCACAGATGATCACGCCCCTGGTGACCAAAGGCTGAGCCCCCACCCCGGCCCGGCCACACCCATGCCCTCCTC
CGTGCCTTCCTGGCCGGGAGTCCAGGGTGTCGCACCAGCCCTGGGCTGATCCCAGCTGTGTGTCACCAGAAGCTT
TCCCGGCTTCTCTGTGAGGGGTCCCACCAGCCCAGGGCTGATCCCAGCTGTGTGTCACCAGCAGCTTTCCCAGCT
TCTCTGTGAGGGTCACTGCTGCCCACTGCAGGGTCCCTGAGGTGAAGTAAACGCCGGCGCTGGGCTTGGCCAGTC
GGCAGTGA

FIGURE 262

GGAAGCTCTTCGTGGGCGGTCTTGACTGGAGCACGACCCAAGAGACTCTGCGCAGCTACTTTTCCCAATATGGAG
AAGTCGTAGATTGTGTTATCATGAAAGATAAAACCACCAACCAGTCTCGAGGCTTTGGGTTTGTCAAATTTAAAG
ACCCAAACTGTGTGGGGACGGTGCTGGCCAGCAGACCGCACACGCTAGATGGCCGAAACATCGACCCCAAGCCAT
GCACACCCCGGGGGATGCAGCCGGAGAGAACACGGCCGAAGGAAGGATGGCAGAAAGGACCCAGGAGCGATAACA
GTAAATCAAATAAGATATTTGTCGGTGGAATTCCTCACAATTGTGGTGAGACAGAGCTCAGGGAATACTTCAAGA
AGTTCGGAGTGGTCACGGAGGTAGTCATGATCTATGACGCCGAGAAGCAGAGGCCCCGAGGTTTTGGATTTATTA
CTTTCGAGGACGAACAATCAGTGGACCAGGCTGTCAACATGCATTTTCACGACATCATGGGCAAAAAAGTGGAAG
TTAAACGAGCTGAGCCTCGGGACAGCAAGAGCCAAGCGCCGGGACAGCCAGGTGCCAGCCAGTGGGGGAGCCGGG
TTGTGCCCAACGCTGCCAATGGCTGGGCAGGCCAGCCCCCGCCCACGTGGCAGCAAGGATATGGCCCGCAAGGAA
TGTGGGTGCCGGCAGGACAGGCGATTGGTGGCTATGGACCGCCCCCTGCAGGAAGAGGAGCCCCCCCGCCACCCC
CACCGTTCACCTCCTACATCGTGTCCACCCCTCCTGGAGGCTTTCCCCCTCCCCAGGGCTTCCCTCAGGGCTACG
GTGCCCCGCCACAGTTCAGTTTTGGCTACGGGCCTCCACCTCCACCGCCAGATCAGTTTGCCCCTCCGGGGGTTC
CTCCTCCACCAGCCACTCCCGGGGCAGCACCTCTGGCTTTCCCACCGCCTCCGTCTCAGGCTGCCCCGGACATGA
GCAAGCCCCCGACAGCTCAGCCAGACTTCCCCTATGGTCAGTATGGCCTGGGTTCCTATTCTCCAGCCCCGCCGG
GCTGCGGCCCACACTTTGTTTACAGTCTTATGGTCAGGCTGAGCAGTGATGTGGCCTAGCAGGTTACGGGCAGGA
CTTGAGTGGCTTCGGACAGGGCTTCTCAGACCCCAGCCAGCAGCCTCCTTCCTACGGGGGTCCCTCCGTGCCAGG
GTCGGGGGGCCCCCCCCGCCGGCGGCAGCGGCTTTGGACGAGGGCAGAACCACAACGTGCAAGGGTTCCACCCCTA
CCGACGCTAGCCCGCGGCGCCGCGACGTCTGCACGGCCCAGACCCAGGATTCCAAACTTGTGAACTCGTGACAAT
CACAAACTTGGCGGCAAAGTGGCGACTCAACCTTGGGGGGGGGGGCGGGGGGAGGGCGCGAGGCTTTTGGAGCGG
CTGTGGGTGTCGTCTGGACTGAGGTTTTTAAATATTTCTTTCTCTAACCCATCAGCACAATAAAAAAAAGTCACT
GGTTCAACAACAGGGTTTAAAAAAAATGTCTTCAGCTTTAATTCAAAACTTCAGGTTTCTTTTTCTTCCTTTTTT
TTGGAAATTATTTTCCTGAGCCTTTTGTTTTACGGTATATTGTAAACTTTTATGTTAAAGAAAAAATATACATTT
ACAAATTGTGAGATTTTTAAGAGAAATTTTCTACGATGTATACTGGCTTATTTTTTAATTTAAAACGGGGTTTCC
GTCGGCACTGGTGGAGGGGGTGCGCTGTTAGTCCCCTCGCTCCTGGCTTTGGGGGTTGGGACTTGGTGGTCCAGA
AACTCTGGGAGCTTCTAGAAGAAATCTACTGAGTGTATTTCTGTTTTTTGTTTAATTCCTTGCTTTTGTCGACTG
ACCTGCTTGGTAGTGTCTGAGGTGAACTGTGGGGGTTGCGCACAGCCAGCCGCGTGGATCCCACGCAGCGCTGAA
CCGAACCGAGTAGGAAGCCTTTCTCCCCAGGCACGTGGCTTCAGGGCGTTTCCCATTGACCAGTTTGACCCTGGT
TTGAATAAAGAGAAGTGCGTTTGGATTAG

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FIGURE 263

CTGCGCAGGCGCGGACCAAAGCGATCTCTTCTGAGGATCCGGCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCG
GACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTCGACCAGCTGCTGGACATGTCCTACGAGCAGCTGATGCA
GCTGTACAGTGCGCGCCAGCGGCGGCGGCTGAACCGGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCT
GCGCAAGGCCAAGAAGGAGGCGCCGCCCATGGAGAAGCCGGAAGTGGTGAAGACGCACCTGCGGGACATGATCAT
CCTACCCGAGATGGTGGGCAGCATGGTGGGCGTCTACAACGGCAAGACCTTCAACCAGGTGGAGATCAAGCCCGA
GATGATCGGCCACTACCTGGGCGAGTTCTCCATCACCTACAAGCCCGTAAAGCATGGCCGGCCCGGCATCGGGGC
CACCCACTCCTCCCGCTTCATCCCTCTCAAGTAATGGCTCAGCTAATAAAGGCGCACATGACTCC

FIGURE 264A

GGGTTTGGGGAGCAGGAGGCAGACATGTGTTGCTTTGCACGTCATCTGGTCCTTCCACCTGGCTGGGCATGGGAT
GGTGACCTCAGCTGGAACATGGGGCTCGAGCCAGACCCCAGGGTCTCCCTGCGTGTAGCCCCCAACCCCAAGCCT
GATCCCCACTGGAGACCTGAACAGCCTTGGACATCATCGGATCAGGGTGGGAGGTGCCAGCCTCTGCCACCTGAC
TTCCAGTCCCTGTGCCCCTCCCACCCTGCCCTTGGGCACTCCTGCCCTGCAGGTTCCTCAGAGGGGCAACCCAAA
GCCAGAGAGGGGCGGGTCTTGTCGGGCCTCCAGCCTGGACTTCCCAGCCCCTCTGGGGCAGCATCTGGGTGCCAG
ACCTCGGTTCCTAGGGCCTCGTTTCTCCCTCTGGGAACAGCCAAATGGTGGTCCCTGAGACTCAGGACAGACCAA
GAAGGAGCCGGATGACATGGCAAGCCACACACTGCGTCCCCTGAGCAGGACGGGACAGCCCGACTCCATCCTCCC
ACCTGCGACTGAGCCCCCACCCCTACTCCTGTCCCAGCCGTGCCCCTGGTGACATTTGGGTGGGAGGGGAGGGGA
TGAGGGGGCACCTGGGGGTCAGAGAACAAATGACGGGTGAATACATGTGTGTGGCCAGGTGGAGGAGGGAGGGGA
GGAGCAGGTGGGCTGGACAGGGCCGGTGTGAGGAAGGGGCTCAGGCTGGCAGGGGGAGGTGGCAGAGGGATGGGC
TGCCATTGGTGCGTCTGAGACAAAGGCGGAGGGAGGAGGCGAGCGCTGATGGGAAAGGAACAAAGAGGGAAGGGG
GGCGTGAAGGGGGGCTCCGGCGGGAGGGCCGAGCCGAGGGAGGAGGCGCCGGCCAGCTGGACAGAGGGAGGAGGC
CAGGCCAGAGCCAGAAGACGGCCAGAGGCACAAAGAAGCCAGCGCGCTGGCAGAGTCAAGGGATGGGGCAGGGGC
TGCCGGGGCCAGCAGGGACCAGCTGAAGGCTGCGCAGGGGGTGCGGGCCACACAGGTAGCCACCCTGAGCTCAGC
CACCGATGGAGGGTCGTGGGGCTGCTGCGGTGATGGCGGTGGGCTTGGGTCCATCTGTCCTGCCGTTTCTGCACA
GCTTAGGTGTCACCCACTGGCCTTCGTGGTGTTTTCATTGTCCATCGGCAGGGACAGCTGGTGGTCTGTCCGCCC
CGCGTGTCTGGCTGTCAGCCTCTGGGCAGGCTTGCTTTTATGGGGGAGGGTCCTGTCTGTCTGTCTGTCGCCCTC
TCTGGCTGTGAGCCTGGGGGTGCTGGGCTGGCCAGTCGGCTTGCTGGGTTAGGCTGTCCCAGCTGTCTGTGTGTT
TGTCCGGCTGTCAGGATGTGTCCTGGGGGCTGGGAAGGAGAGGCCGACCCATCGTCTGTCGGTCGACTGGTCAGT
TGGACGTTCAGCTGTCTGTACGTCTGTCTGCTGGCCCCTCTGTCTCCCCTTGGGGCCACCTCTCACTCCACCTGC
CCCTCTGCGCCCCGGATTGCCTGGCCACCACCACGTGGGCCTGTACTTGTCCACACCAGTGACTCCTGCCTGAGA
CCCCCCCCAACCCAGGATCAGGCAGGACGGCTGGGGCTTAGGTCAGGGGCCGTCTGTCCGGAAGGCATCACCGCG
CCCTCCCCAGACCATCAGCTGAACCCTCTGACCCTGTGATCCCAGACGCTGCAGGAGCTGAAGATGGCGAGCTCC
GTGGCGCCCTACGAGCAGCTGGTGAGGCAGGTGGAGGCCTTGAAGGCTGAGAACAGCCACCTGAGGCAGGAGCTA
AGGGACAACTCCAGCCACCTGTCCAAGCTGGAGACAGAGACGTCGGGCATGAAGGAGGTCCTGAAGCACCTACAG
GGAAAACTGGAGCAGGAGGCCCGAGTGCTGGTGTCCTCGGGGCAGACGGAGGTGCTGGAGCAGCTGAAGGCCCTA
CAGATGGACATCACCAGCCTGTACAACCTCAAGTTCCAGCCGCCCACCCTGGGCCCGGAGCCTGCCGCCCGGACC
CCCGAGGGCAGCCCAGTACACGGCTCCGGGCCCTCCAAGGACAGCTTTGGGGAGCTGAGCCGGGCCACCATCCGG
CTGCTGGAGGAACTGGACCGGGAACGGTGTTTCCTGCTGAATGAGATTGAGAAGGAGGAGAAGGAGAAGCTCTGG
TACTACTCTCAGCTGCAGGGCCTGTCCAAGCGCCTGGACGAGCTGCCGCACGTGGAGACGCAGTTCTCGATGCAG
ATGGACCTGATCCGGCAGCAGCTTGAGTTCGAGGCCCAGCACATCCGCTCGCTGATGGAGGAGCGCTTCGGCACC
TCGGACGAGATGGTGCAGCGGGCACAGATCCGCGCCTCGCGCCTGGAGCAGATTGACAAGGAGCTGCTGGAGGCG
CAGGACCGAGTGCAGCAGACGGAGCCCCAGGCCTTGCTGGCGGTGAAGTCGGTGCCGGTGGACGAGGACCCCGAG
ACAGAGGTCCCCACACACCCTGAGGATGGCACCCCTCAGCCGGGCAACAGCAAGGTGGAGGTGGTCTTCTGGCTG
TTGTCCATGTTGGCGACGCGCGACCAGGAGGATACAGCGCGCACGCTGCTGGCCATGTCCAGCTCGCCCGAGAGC
TGCGTGGCCATGCGCCGCTCGGGCTGTCTGCCTCTGCTGCTGCAAATCCTCCACGGCACCGAGGCCGCGGCCGGG
GGTCGCGCCGGGGCCCCAGGGGCACCGGGCGCCAAGGACGCACGCATGCGCGCCAACGCGGCGCTGCACAACATC
GTCTTCTCGCAGCCGGACCAGGGCCTGGCGCGCAAGGAGATGCGCGTCCTGCACGTGCTGGAGCAGATCCGGGCC
TACTGCGAGACCTGCTGGGACTGGCTGCAGGCCCGAGACGGCGGGCCCGAGGGAGGTGGCGCCGGCAGCGCCCCG
ATCCCCATCGAGCCGCAGATCTGCCAGGCCACCTGTGCTGTTATGAAGCTGTCCTTTGATGAGGAGTACCGCCGT
GCCATGAACGAGCTAGGTGGGCTGCAGGCCGTGGCAGAGCTGCTGCAGGTTGACTATGAGATGCACAAGATGACC
CGGGACCCGCTGAACCTGGCGCTGCGCCGCTACGCGGGCATGACCCTCACCAACCTCACCTTTGGGGACGTTGCC
AACAAGGCCACCCTGTGTGCGCGCCGCGGCTGCATGGAGGCCATCGTGGCCCAGCTGGCCTCCGACAGTGAGGAG
CTCCACCAGGTGGTGTCCAGCATCCTTCGGAACTTGTCCTGGAGGGCCGACATCAACAGCAAGAAGGTGCTGAGG
GAGGCGGGCAGCGTGACTGCCCTGGTGCAGTGTGTCCTGCGGGCCACCAAGGAGTCCACCCTGAAGAGCGTGCTG
AGCGCCCTGTGGAATCTGTCTGCACACAGCACAGAGAACAAGGCGGCCATCTGCCAGGTGGATGGCGCCCTGGGC
TTCCTGGTGAGCACCCTGACCTACAAGTGTCAGAGCAACTCGCTGGCCATCATCGAGAGCGGCGGCGGCATCCTC
CGCAATGTGTCCAGCCTCGTCGCCACCCGTGAGGACTACAGGCAGGTGCTCCGGGATCACAACTGTCTGCAGACG

FIGURE 264B

CTGCTGCAGCATCTGACTTCGCACAGCCTGACCATCGTGAGCAACGCGTGCGGCACGCTCTGGAACCTGTCGGCC
CGCAGCGCCCGTGACCAGGAGCTGCTGTGGGACCTGGGCGCCGTGGGCATGCTGCGTAATCTGGTGCACTCCAAG
CACAAGATGATCGCCATGGGCAGCGCCGCCGCCCTGCGCAACCTGCTGGCCCATCGGCCCGCCAAGCACCAGGCG
GCCGCCACCGCCGTGTCCCCAGGCAGCTGCGTGCCCAGCCTGTACGTGCGCAAGCAGCGGGCGCTGGAGGCCGAG
CTGGACGCACGGCACCTCGCGCAGGCGCTGGAGCACCTGGAGAAGCAGGGCCCGCCGGCAGCCGAGGCCGCCACT
AAGAAGCCGCTGCCGCCCCTGCGACACCTGGACGGCCTGGCCCAAGACTATGCTTCCGATTCGGGCTGCTTTGAC
GACGACGATGCACCGTCATCCCTGGCTGCGGCCGCGGCCACCGGGGAGCCAGCCAGCCCTGCCGCGCTGTCCCTC
TTCCTGGGCAGCCCCTTCCTGCAGGGGCAGGCGCTGGCTCGCACCCCGCCCACCCGCCGAGGCGGCAAGGAGGCA
GAGAAGGACACCAGTGGGGAGGCAGCCGTGGCGGCCAAGGCCAAGGCCAAGCTGGCGCTTGCAGTGGCGCGCATC
GACCAGCTGGTGGAGGACATCTCCGCCCTGCACACCTCGTCCGACGATAGCTTCAGCCTCAGCTCTGGAGACCCG
GGACAGGAGGCGCCACGGGAGGGCCGCGCCCAGTCCTGCTCGCCATGCCGCGGCCCGGAGGGCGGGCGGCGAGAG
GCAGGAAGCCGGGCGCACCCGCTGCTGCGGCTCAAGGCGGCCCACGCCAGCCTCTCCAACGACAGCCTCAACAGC
GGCAGTGCCAGCGACGGGTACTGCCCACGCGAACATATGCTGCCCTGCCCGCTGGCCGCACTGGCTTCGCGCCGC
GAGGACCCCAGGTGTGGGCAGCCTCGGCCCAGCCGGCTTGACCTTGACCTGCCCGGCTGCCAGGCCGAGCCCCCG
GCCCGCGAGGCCACCTCCGCCGACGCCCGCGTGCGCACCATCAAGCTGTCGCCTACCTATCAGCACGTGCCACTG
CTTGAGGGTGCCTCAAGGGCGGGTGCAGAGCCCCTCGCGGGGCCTGGAATCTCTCCAGGGGCCCGGAAGCAGGCC
TGGCTGCCGGCAGACCACCTGAGCAAGGTTCCCGAGAAGCTGGCGGCTGCCCCGCTGTCTGTGGCCAGCAAGGCA
CTGCAGAAACTGGCGGCGCAAGAGGGGCCACTCTCGCTGTCCCGATGCAGCTCCCTTTCCTCGCTGTCCTCGGCC
GGCCGCCCAGGCCCCAGCGAGGGTGGTGACCTGGATGACAGTGACTCCTCCCTGGAGGGGCTGGAGGAGGCCGGC
CCCAGCGAGGCTGAGCTGGACAGCACGTGGCGGGCGCCCGGGGCCACCTCGCTGCCCGTAGCCATTCCGGCTCCC
CGGCGTAACCGAGGCCGGGGCCTGGGGGTGGAAGACGCCACGCCGTCCAGCTCGTCGGAGAACTACGTGCAGGAG
ACACCGCTTGTGCTGAGCCGCTGCAGCTCTGTGAGCTCGCTGGGCAGCTTCGAGAGCCCGTCCATCGCCAGCTCC
ATCCCCAGTGAACCTTGCAGCGGGCAGGGCAGCGGCACCATCAGCCCTAGCGAGCTGCCCGACAGCCCCGGACAG
ACCATGCCTCCCAGCCGGAGCAAGACGCCACCGCTGGCGCCCGCGCCACAGGGTCCCCCCGAGGCCACCCAGTTC
AGCCTGCAGTGGGAGAGCTACGTGAAGCGCTTCCTGGACATCGCCGACTGCCGGGAGCGCTGCCGGCTGCCATCT
GAGCTGGACGCAGGCAGCGTGCGCTTTACCGTGGAGAAGCCAGACGAGAACTTCTCGTGCGCCTCCAGCCTCAGC
GCGCTGGCCTTGCACGAGCACTACGTGCAGCAGGACGTGGAGCTGCGGCTGCTGCCCTCGGCCTGCCCCGAGCGC
GGCGGGGGCGCCGGGGGCGCCGGCCTCCACTTTGCAGGGCACCGGCGGCGGGAGGAGGGGCCGGCGCCCACGGGT
TCTCGCCCTCGCGGCGCCGCGGACCAGGAGCTGGAACTGCTGCGGGAGTGCCTGGGAGCCGCCGTGCCTGCCCGG
CTGCGCAAGGTGGCCTCCGCGCTGGTGCCAGGTCGCCGCGCACTCCCCGTGCCCGTCTACATGTTGGTGCCCGCC
CCGGCCCCGGCCCAGGAGGACGACTCCTGCACTGACTCCGCGGAGGGCACGCCGGTCAACTTCTCTAGCGCCGCC
TCGCTCAGCGACGAGACGCTGCAGGGACCCCCCAGGGACCAGCCCGGGGGACCAGCGGGCAGGCAAAGACCCACC
GGCCGCCCCACCTCTGCCAGACAGGCCATGGGGCACCGGCACAAGGCGGGAGGCGCCGGCCGCAGCGCGGAGCAG
TCTCGGGGCGCGGGCAAGAACAGAGCAGGGCTGGAGCTGCCCCTGGGCCGGCCCCCGAGCGCCCCCGCAGACAAG
GACGGCTCAAAGCCCGGCCGGACCCGCGGGGACGGGGCGCTCCAGTCGCTGTGCCTCACGACGCCCACTGAGGAG
GCCGTGTACTGCTTCTACGGCAACGACTCGGACGAGGAGCCCCCGGCGGCCGCGCCCACGCCAACCCACCGGCGC
ACATCGGCCATCCCTCGCGCTTTTACGCGGGAGCGTCCGCAGGGCCGGAAGGAGGCCCCTGCCCCGTCCAAGGCT
GCACCAGCTGCCCCGCCGCCCGCCCGGACCCAGCCCAGCCTCATTGCTGACGAGACCCCGCCCTGCTACTCCCTG
AGCTCCTCCGCCAGCTCCCTCAGCGAGCCCGAGCCCTCGGAGCCGCCGGCCGTCCATCCACGAGGCCGGGAGCCC
GCGGTCACCAAGGACCCGGGCCCAGGAGGCGGACGCGACAGCTCGCCCAGCCCGCGGGCCGCGGAGGAGCTTCTG
CAGCGGTGCATCAGCTCGGCCCTGCCCAGGCGCCGGCCCCCCGTGTCTGGCCTGCGGCGCCGCAAGCCCCGAGCC
ACCCGGCTGGATGAGCGGCCCGCAGAGGGGTCCCGGGAACGCGGCGAGGAGGCAGCGGGCTCGGACCGGGCCTCC
GACCTGGATAGCGTGGAGTGGCGCGCCATCCAGGAGGGCGCCAATTCAATTGTCACGTGGCTGCACCAGGCAGCA
GCTGCCACGCGGGAGGCCTCGTCCGAGTCCGACTCCATCCTGTCCTTCGTATCCGGGCTGTCAGTGGGATCCACC
CTACAGCCCCCCAAGCACAGGAAGGGACGACAGGCGGAGGGAGAAATGGGCAGTGCCCGGCGGCCAGAGAAAAGG
GGCGCAGCCTCAGTCAAGACCAGCGGGAGCCCCCGTTCCCCTGCAGGCCCCGAGAAGCCACGTGGCACACAGAAG
ACCACGCCCGGGGTGCCAGCTGTGCTCCGGGGACGAACAGTGATCTACGTCCCCAGCCCGGCACCCCGTGCCCAG
CCCAAAGGGACCCCCGGCCCCCGCGCCACACCGCGGAAGGTGGCGCCCCCTTGCCTGGCACAGCCCGCGGCTCCA

FIGURE 264C

GCCAAAGTCCCGAGCCCCGGGCAGCAGCGGTCGCGGAGCCTACACCGGCCTGCCAAGACCTCGGAGCTGGCGACG
CTGAGCCAGCCCCCCAGAAGCGCCACACCGCCCGCCCGCCTCGCCAAGACCCCCTCCTCCAGCTCCTCCCAGACC
TCGCCCGCCTCCCAGCCCCTGCCCAGAAAGCGCCCCCCGGTCACCCAGGCTGCTGGGGCCCTGCCCGGCCCCGGA
GCCTCCCCGGTGCCCAAAACGCCGGCGCGCACCCTTCTGGCGAAGCAGCACAAGACGCAGAGATCGCCCGTGCGG
ATCCCGTTCATGCAGAGGCCGGCCCGGCGTGGGCCGCCACCGCTGGCTCGGGCAGTCCCGGAGCCGGGCCCCAGG
GGCCGGGCGGGGACCGAGGCGGGCCCGGGGGCGCGCGGGGGCCGCCTGGGCCTGGTGCGTGTGGCCTCAGCCCTC
TCCAGCGGCAGCGAGTCCTCCGACCGCTCGGGCTTCCGGCGACAGCTAACCTTCATCAAGGAGTCGCCGGGCTTG
CGGCGCCGCCGCTCCGAGCTGTCCTCGGCCGAGTCCGCGGCCTCTGCCCCCCAGGGCGCCTCGCCCCGCCGCGGC
CGGCCCGCGCTGCCCGCCGTCTTCCTCTGCTCCTCGCGCTGCGAAGAGCTCCGAGCGGCACCCCGGCAGGGCCCG
GCCCCGGCCCGGCAGCGGCCCCCCGCGGCCCGACCCAGCCCTGGCGAGCGCCCTGCCCGGCGCACCACCTCCGAG
AGCCCGTCCCGCCTGCCTGTGCGCGCGCCCGCCGCCCGGCCGGAGACTGTCAAGCGCTACGCGTCGCTGCCGCAC
ATCAGCGTGGCCCGCAGGCCCGACGGCGCCGTCCCCGCGGCCCCTGCCTCAGCCGACGCCGCGCGCCGCAGCAGC
GACGGGGAGCCCCGGCCGCTCCCCAGGGTGGCCGCGCCGGGCACGACCTGGCGGCGCATCCGAGATGAGGACGTG
CCCCACATCCTGCGCAGCACGCTTCCCGCCACGGCCCTGCCACTGCGGGGCTCCACGCCCGAGGACGCCCCGGCC
GGGCCCCCGCCGCGCAAGACCAGCGACGCCGTGGTCCAGACCGAGGAGGTCGCCGCCCCCAAGACCAACTCCAGC
ACGTCCCCGAGCCTGGAGACCAGGGAGCCCCCCGGGGCCCCCGCCGGCGGCCAGCTCTCCCTCCTCGGCAGCGAC
GTGGACGGTCCCAGCCTCGCCAAGGCTCCCATCTCCGCACCCTTCGTGCACGAGGGCCTGGGGGTCGCCGTGGGG
GGCTTCCCCGCCAGCCGGCACGGCTCCCCCAGCCGCTCGGCCCGAGTACCCCCCTTCAACTATGTGCCCAGCCCC
ATGGTGGTCGCAGCCACCACCGACTCGGCCGCGGAGAAAGCCCCGGCCACTGCCTCCGCCACCCTCCTGGAA**TAG**

TGGCCTAGGCCGGCCTTCTGGAACGTTCTCTCCCGGCCCTGCGGCGCGGTCTGGCTGCCCCATGGGCCTGCGCTG
TAGACGTCCCCCATAGGTCGCCCCAGGGCCTCTGCCCACCCGAGCCCCACCACTCTCAGAACCCCCGCCCAGCGC
ACGGCGACCTCGCGCCTCACCGGAAGACCTTGCCTCTGTGCCGCGGAGGTCCAGGAGGAAACGGGGCGGCCGCTA
GGCCTCAAGTCCCGACCGTGGAGCGCTGGCAAGGGCGTCCTGGCCCAGCCCTGAGCGCGCGGCCCTTCCCCTGTC
GGAAGCCGTTGCTTGACCCCGGGCGAGGGAGGCGGTAGCCTCCGGGTCCGGGTCTGGGTCTGGGTCCGCTGCTTC
GCAGGGACAGCGCTGGGGAGGTGACGGCGCCCGCCGCAGGTGGGGCGAGGCTGGGGGAGGGCGGCGCCGCGGCGG
GCCTGCCAGCTGGGGGCCTTTGCGGCGCGCAGGGGCGAAGCCTGTAATCACTGCAGCCGCCGGTAATTCGCTAAT
GAGGGCTTTGCAGGGATTGTTTTCATTCTCAGCCCCAGCTGTGGGAGTGCGGGTGGGGGTGTGGCCGAGCCCCGG
CAGGAAGCCCCGCCCAGACGGTGTTCAGGGAACCCGGAGCCCAAGCGCTCCGGCGGAGCCCAAAAGGGTGGGGGT
GGGAGGGGCAGAGGCCAACGGATCCCCCTGCCTGTCGCACCCCTTGGCGGGAGACGGGAAGGCAGCGGGCTGCGT
ACGATGGGACCCTGGTGCAGACGCCGGGCCGGCTGACATTTGGACCCCATCCCAGAGGAGATGCTGGCTACCAGC
TGGGGCGACCCCAAGGGTCGCTGGAGTCAGTATCGGCCCGGCGCAGCCGCGGCGGGCGAGGCCAATGGAAAGGAG
ACTGAGGGGAGTCCCGGCAGTGAGCCCGAGGCCCTGGGACCTGGAGCCCGCGCTGGCCTCTCCCCAGCGGAGCCT
GCACGTTACGGAGACCATCACATGTGGGCGTGGTCAGTGCCCAGGACCGCACCGCTGCTCATCTTGTCCCTTTTC
AATTCCCTTCTGGTTCATGATGCATAAAGCGCTAGGCCCTAGAACTCCAGAAACAGCACAGCTGGGGCGGGGACC
CAGCCTTGCCCTCCACCCGAGGCTCTGGGACAAGGCGGGAGGTTCGGGGGCCTTCCGGCAGGTGAACGCAGGGCT
GGAGAGTATTTGGTGCCAGATGAGGTGAAAGCTTATAGAAGGGCCTGAGGGGCTCGGCTGCCTCATCCCCTGGCG
GGGGAGGCTGGGAGCTGGGCCTCCTGCGTGGGGTGGGACTCGCAGGGGCCGGGTCTCCGTGACTGGGGCAACGCC
TCGTCCTGCAGAGGGAGCCGACGACCTCTTTTCTGCAGAAAAGCTCCAGCAGGCGCTGCCTTCACCCACGGATCT
GCCCAGGCTGAAGGCACACGCTCAATGCCCCACGTGCCTTCTCCAGGAGGAACGAAGCAGGGTTTGAGGGTTGGG
TGGATGGAGCTCAGAAGGAAACCCCAGCCCCACCACGGATGACACCATCCCTCCCGTCCCATCCCCAGCATGGGC
AAGGCCAGCCTTTCTGGCAGAAGGAGCTGTCCTCAACTCAGGGCCGCTGTGAGCAAAGCTGACCCCAGCCCCCAC
CCCCAGTTAACACTGCTGCTTCTCTGAATGCATGTCACGCTGCACCCCATGCTCCGGGCCCACACCCTGCAGGAC
AAGGAGCTCCAGACAGGACGTCCATAAGTCACCGAGGTGTGCCACCCAGCAGGTGCTGGAGGTGCCCAATGCTCC
CTCCTAGGACCTCGCAGCCAGGCAAGGCTGTCAGGTTGTTTTGGGGGAAGAGGGGGTCATGGATGGCTGAGCAGA
GAGCGGGGAAAATGCAGGCTGAGTGGGGCGACCTCCTGCCTGCCAGGAGCCCCCTTTCAGGACACAGCGGGGGTC
TCACACTTGCTGTCCCCATCCATGGCCCGAGGGGGAACCTGGTGGTCTCTTCTGAGCTTTTGGACTTGGGGATGC
CAAACACGTGCTCACCCTCACACTCGCCCCGGCCCGCTGCGCCCCTAATTGCCAAAGGGTAGGGAAATGGCGAAG
CCAGCCACCAGGTCGCTGGTGACAGGGCCAGGGTTATGCAGGAAGGTGGTGCGGCATTGCCTTCCACATATGTAA

FIGURE 264D

GTCTCTGGGCGGCGCCCTCCCAGCTCCCTGCCTCTGTTTCCCCATGTGGGCCGTGGGGAACTCCCAGAGCTACCT
CTTGGGGGAGCGTGGTGGCAGCGATGATGGGGAGACGCCTGGAAGCTCACAGAACTTGGGTCTGGCTGGCTCCTG
CCCGTGACGCCTTGCCCAGCAGCAAGGTGCGCAACATGGCTGCCAGCCCCGCCTCCCACCCCCACCCCGAGTCCT
GAGCTCACTTTCGCCTTCTCCATCCCCTGCCGTGGGGGCCACAGCCACACCTCACCGCCCAGTCCAGCTGTCTCC
AGAAGGGGACAGGCAGTCCGCGGTCTCTGGACAATCAACTCAAGGTACGCCCACTGCAAGGCCTCCCTCCCACCG
CGGCCCCTGCCTGGCCACCTGGCCTCTCTGCACCAGGGTGACAAGGGGTCCTCGTCTGCCCCCCAATGCTCCAGG
GCCAGTCCTAAGGAGCTGAGGGTCTGAGGACGCAGGGAGGGTGGAGGTGTCCTGAGGCTGATGGACAGTGACCGC
CACTGGCCCCCAACATGACCACACGTGGGTGCTGAACTCGGGGCGCCGTGCCCACCGGCATGGTCCTCCCGAGCT
CCGACAGCATTACCTCACCCGGCCCCATCTGTTGCCCCGGTCCAGCCCTGATGGCGCGCGCCTGGTCTGTCTGAT
TCCCCTAGCCGCCACCCCACGTTTCTGTACCGGGTCTCTGCAGTGTTAAACGGACGTGTAAATAGTGGTAAATAG
TGAAAGCCTGTCCTTCCCTAAATGTAAAGCCATCTGTCCGGCGTAAGGACGACACCGTCAGCTGTCCGACTCGCA
CACATTTAATAAACTGAGCTCTTGC

FIGURE 265

AGCATGCAGTTCGGTCACCTGAGGGTGCTGGGGCCGTGGTTTGAGCTTCATGGGCTCAGGTCCATGGCCGTTGAG
TGTGGCGAAACTGAGGCACGCTGTGCGGGGGACGGGGGGCGCTCACAGAAGGTAGGGGGCCTCCTGTGCCTTCAT
CCAGGCACTGCCCGGCCTTTCCCACCCTGTTGCTAAAGCAGGTGATGACAGAGGTGATTTGATCAGCCCAGACCC
GTGCGGCACGTGGAGCCTTCGTCCGTGGGAGACCACACTGCCGAGGGGCAGGCCAGAGCCGAGGGGCCCCTGACG
CTTCTCTGAGTGACCCTGAAGTCGGTGCTGCTTCAGCCCTGCTGCACTGGGCTTGCATACGTGGGGGAGCAGGGA
GCCATACGTAGTTTCTGCTGAATGTGGGAGTCACCAGGACGTCA**ATG**CCCACCTCTCACCTTCGCCACCCCTGCC
TCCCTAAGTGTGTGCTCCAGGAGGTTGCACGGCCCCTGGAGAGGTTTTCGGTGGCGGGCTTGTTGCGTCTCTGGC
TTCCAGAGACAGCAGGAATGAGAGCCAGGCCAGCTCAGTGGAGTCCATCCCGGTGGGTGCCACGGCTTTTGCAGG
AATGGAAGCCCCGCCCCCAGGAGGGCCACTGCTGGCGAGGCTTGAGCTCTTTCTGTGACCCGATCCCCCTGGTCA
CACGCTTTGCTAAGGCGGGTAGCCTAGAGCTGGAAGCCCCTCCTGCCACCCAGCCACTGTGCCTCTCCCAGCTGA
TGGACGAGGAAGCCTCCATTACT**TGA**TTTTTGTTTTTATTTATTTTTGAGACAGGGTCTCATTCTGTCACCCAGG
CTGGAGTACCGTGGCACGATCATAGCTTATTGCAGCCTCGGCCTCCCAGTCTCAAGCGATCCTCCTGCCTCTGCC
TCCAGAGAAGTAGGGACCACAGATGCGTGCTACCACGCCCAGCTAATTTTTGTATTTGTATTTTTTGGTAGAGAT
GGGGGTGTCACTATGTTGTCCAGGCTGGTCTCTAACTCTTGGGCTCAAGTGTTCCTCCCGCCTCGGCCTCCCAAA
GTGCTGGATTACAGGCGTGAGCCACCACACCTGGCTGCATCCGTCATGTTAAGAAGACCCCGGCTGGCAAGCTCA
CTCGGGGACTGCAGGGAACCCTGCCCTTTGGGGGCAGTAGTGAGGGGTGCCCAGGAGGATGGGGTGGTCAGCAGG
CAGTGATGCTGCTGTGTCCTGTCTCAGACCCCCCAGTTCCCTTCAGGATGATGGAGGATGCGGAGGCCCCGGGAG
AGCAGCTCTACCAGCAAAGCCGGGCCTACGTGGCTGCCAACCAGCGGCTGCAGCAGGCGGGCAACGTGCTGAGGC
AGAGGTGTGAGCTCCTGCAGCGAGCCGGCGAGGACCTGGAGCGGGAGGTGGCCCAGATGAAGCAGGCAGCATTAC
CGGCAGCCGAGGCTGCCTCCTCAGGCTGACCTCTCGGGGCCTGCAGGCTTGGGCAGCGCACAAGGTGGCCTGCAC
CCAGGCTTTCCCTGGGGGTCCGTCGGCCCCAGACTGGCATTCACGGGGTCCCAGCCCACGTGGGTGTTGACACAG
GCGCCCCTCCTGATGCTGGGGCTGCGGTTCATCCGTCGTCTCATTCATGCCGAGTTGGTGGGACCCACCCAGCTG
GCTCCGTCCTGCGTGACCTGAGGGCCCCACTGGGGTTCTGGAAGAGGATAGGGACATTATTGCTGTACTGTGATT
CTGTCGTCAGCTCACAGTGGCCGTGCTCTGCAGTGGGGCCCCTGGGAGCAGGTGCCACCTCCTTCCTCTCCCGGG
GCAGGCACTCGCCTGTCCACTTCTGAGTCCAGGTGTTGGGATCGAGGTGTTAACTGTGATTCCATCCAGCGAGTG
CCCACCCAATGTCAGAGCAGCCCGAGGGCCAGCCTGAGCCCCTGACCCCACTTCCTTCTGGGCCCCGGGCTCCTC
CCACAAGCCACGTTGATCTTCACAACGACCCTGGGCCGCTGGGGTCACCCAAGAGAAGCAGCCCTGAGACCCAGC
CAGGCTGGGCCTAGCTCCACGGCACGGGTGTCTCCCAGCCACTGCCCTTGCTGGAGGACCGCTGTGAGTCACTGG
CCAGGAGCCCAGGGTGTCCTGAGTCTCATAGCCACCCTGCCAGCTGCAGCAGGTCCTGGGCCTGCTTCCCTGCGG
GTTCTGGCCCTGGGGGAGGGGGCGTTAGTGCGGCGGAGGGTCTTGCCAAAGGCTTTTCATCCTAAATAGCAACTT
GAGTGGAAACCTGGGCAAGGCGGCCCAGAGGCTGGGCCCTGCACATAAAGCTTTCGTGTGTGTC

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FIGURE 266

CGCGGGGAAACTGAGGCAGAGAGATGGGCTCCAAGGCAAAGAAGCGCGTGCTGCTGCCCACCCGCCCAGCGCCCC
CCACGGTGGAGCAGATCCTGGAGGATGTGCGGGGTGCGCCGGCAGAGGATCCAGTGTTCACCATCCTGGCCCCGG
AAGGTAGGGGGAGCCCGGTCCCGGGGAAAAGCGGACCTGAGACCCCGGCAGCAAGGGGACGGGAGAGAAGCACAC
CCCTAACTCCTGACCCCACGCCCTGGGAACCCCCGCAACATGGGCACGGTCCGTATCCTCTCCGAGTCTCCCTCT
ACTCCTCCGTAGAGTGGGACCGATTTTCAGAGGGTTCTTCTGACAGGGGTGGAGGCCGGGCGCTGTGGTTCAGGC
CTGTAAGCCCAGCACTTTCGGAGGATGAGGCGGGAGGATCGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGCCAA
CATGGTGAAACCCCGTCTCTGCTAAAAATGAAAAAACAAAAC

FIGURE 267

GGGGTCTGGGCAGCGGCGGCCGTGGCGGAGGGCTATGCGGCGGGGGAGACGGGGCAGGCCCCTCCTCCTTTGTCC
GCCCTGCCCTCCCATTGGTCCTAGCGGGGGGCCGGGGGCGGACACCGGCGCGGGGCCGGAGCATCGCGGCTCAGG
CTGCGGGAAAGCGGTGCGCGTGCAGCGGGGTGGGTGCCCTGGTCCGCGGGCGAGCTCGAGCAGCCAACCCCGGGC
GCGTCGGGGCC**ATG**GACGGCCTGAGGCAGCGCGTGGAGCACTTCCTGGAGCAAAGGAACCTGGTCACCGAAGTGC
TGGGGGCGCTGGAGGCCAAGACCGGGGTGGAGAAGCGGTATCTGGCTGCAGGAGCCGTCACTCTGCTAAGCCTGT
ATCTGCTGTTCGGCTACGGAGCGTCTCTGCTGTGCAATCTCATCGGATTTGTGTACCCCGCATATGCCTCAATCA
AAGCTATCGAGAGCCCAAGCAAGGACGACGACACTGTGTGGCTCACCTACTGGGTGGTGTACGCCCTGTTTGGGC
TGGCCGAGTTCTTCAGCGATCTACTCCTGTCCTGGTTCCCTTTCTACTACGTGGGCAAGTGCGCCTTCCTGTTGT
TCTGCATGGCTCCCAGGCCCTGGAACGGGGCTCTCATGCTGTATCAGCGCGTCGTGCGTCCGCTGTTCCTAAGGC
ACCACGGGGCCGTAGACAGAATCATGAACGACCTCAGCGGGCGAGCCCTGGACGCGGCGGCCGGAATAACCAGGA
ACGTCAAGCCAAGCCAGACCCCGCAGCCGAAGGACAAG**TGA**AGCAGCCCCCTGAGCCTCACAAGGACCTCCTGGC
TGGTGAGGAGGGGGCCGCGCCAGGCTCCCAGGCCTCCACAGAGTCTTCAGCGCATCCCCCAACAGCAGCCCCTGC
CAGTCCCTCGGGTCCAGGCAAGGCCCTGGGGGTCTCCTTAAATGCCACCTCGGGCAAGTCCCAGTCCCAGTCCTC
GGCCACCCCCAGCTCTGGATCCCAGGGCCAGCTGCCCTCTGGCTCTGGCTGTGGCTCCCGCCTGTCCGGCAGGGC
CCAGGGCCAGCGTCGGGCACAGGGCAGCTCCCACTGGTCTCGGCAACACACCCAGCCGCCTGGTACTTCCTCCAG
CCCCTCCCAGTCAGCCCTCCCGTCCTCGGGGCCCCTGCAGCCACCCAACGTCACCTCCAGCCCGGTCTCACCCAT
GGTCCAGTCTCCCAGCAGCAGCAACATCCCCACGCAGCCCCCCAGCAAGTCCTCTGGCAAGCCGGAGGACGCAGC
CCCCAAGACCAGCGGACAGCGCCAGAAGGAATCGTCGAAACAGCCTGCCAGCAGCGCCTCAGTGCCCGAGCTGGT
CCCCTGCCATTCCGGGACCTCTCTGGAGTACACTTCGGAGTCCACCACCGAGATCACCTGCAGCTGGCCACACCA
CAGGCCCCCGTGCCTGCAGCACTACTGGTGCCTGAAACACCTGGCCTGCTAGGAGGCTCCAATAAAGCTAACCCG
GACCAG

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FIGURE 268

CTCAGAGCGGCCCCGGAGCGGCCGCAGCGCGGTGGTCTCGGCCCGGCTGCGCCAGAGTCCGCGCGATGGAGCCCC
GGCCGCGGCGGCGGCGCAGGAGTCGCCCCCTGGTCGCCGCCTTCCTGCGAGACCCGGGCTCGGGCCGCGTGTACA
GGCGCGGGAAGCTGATCGGCAAGGGCGCCTTCAGCCGCTGCTACAAGCTGACAGACATGTCCACCAGCGCCGTGT
TCGCCCTCAAGGTGGTGCCGTGTGGCGGGGCTGGGGCCGGGTGGCTTCGCCCGCAGGGAAAGGTGGAGCGTGAGA
TTGCCCTGCATAGCCGCCTGCGACCCCGCAACATCGTGGCTTTCCACGGACACTTTGCTGACCGCGACCACGTGT
ACATGGTGCTGGAGTACTGCAGCCGCCAGTCTTTGGCCCACGTGCTGAGGGCGCGGCAGATCCTGACGGAGCCAG
AAGTGCGCGACTACCTGCGGGGCCTGGTCAGCGGCCTGCGCTACCTGCACCAGCGGTGCATCCTGCACCGCGACC
TGAAGCTCAGTAACTTCTTCCTTAACAAGAACATGGAGGTGAAGATTGGAGACCTGGGACTGGCGGCCAAGGTGG
GGCCAGGGGGCCGCTGCCACAGAGTACTCTGTGGGACCCCTAACTTCCTGGACCCTGAGGTTGTCTCCAGAAACG
GTCACTCCTGCCAGTAGGACATCTGGGCTCTGGGCTGCATC**ATG**TACACGGTGCTGACTGGCACCCCACCCTTCA
TGGCCTCACCCCTGTCGGAGATGTACCAAAACATCCGTGAGGGCCACTACCCCGAACCCGCTCACCTGTCTGCCA
ATGCGCGCCGCCTCATCGTGCACCTCCTAGCACCCAACCCGGCCGAGCGGCCCAGCCTGGACCACCTGCTGCAGG
ACGACTTCTTCACACAGGGTTTCACTCCAGACCGGCTGCCGGCCCACTCCTGCCACAGTCCCCCCATCTTCGCCA
TACCCCCGCCTCTGGGCAGGATCTTCCGGAAGGTGGGCCAGCGGCTGCTCACCCAGTGCCGGCCACCCTGCCCCT
TCACGCCTAAAGAGGCCTCGGGTCCAGGAGAAGGTGGGCCAGACCCTGACTCCATGGAGTGGGACGGCGAGAGCT
CCCTGTCTGCGAAAGAGGTTCCCTGCCTGGAAGGCCCCATCCACCTGGTCGCACAAGGGACCCTGCAGAGTGACC
TGGCCGGGCCCGAGGGGAGCCGGCGGCCAGAGGTGGAGGCGGCCCTCAGACACCTGCAGCTGTGCCTGGATGTAG
GCCCCCCGGCCACACAGGACCCCCTGGGAGAGCAGCAGCCCATCCTCTGGGCCCCCAAATGGGTGGATTATTCCA
GCAAATACGGCTTTGGCTACCAGCTCTTGGACGGGGGGCGCACGGGACGGCACCCACATGGCCCTGCGACCCCCC
GGAGGGAGGGGACCCTCCCCACACCTGTGCCACCTGCTGGACCCGGCCTCTGCCTCCTGCGCTTCCTGGCCTCTG
AGCACGCCCTGCTGCTGCTGTTCAGCAATGGGATGGTGCAGGTGAGCTTCAGTGGAGTCCCGGCCCAACTGGTGC
TGAGTGGCGAGGGTGAGGGTTTGCAGCTCACCCTCTGGGAGCAGGGGTCCCCTGGCACCTCCTACTCCCTGGACG
TCCCGCGGAGCCACGGCTGCGCCCCCACCACCGGACAGCACCTTCACCACGCCCTCCGCATGCTGCAGAGTATC**T**
AGTGCCCCTGAGGGTCAGAGTGGACCCCTGCATGGTAGTGCCAGGGACCCAGGCTCCATTTCCATTCCTGTGGCT
CCCCCAGAGGGGCTGTCCTGGGGGAGGGCTGGGGGGCACACGGGAGGTGGGTTCTTGCCTTGTGGCATGACTGTT
CAACCCAGACTTTGCTGGGATCTCTTCCTTTTTCATTAAAGACAATTTGAAATGCTGT

FIGURE 269

GGCTCAGGACCCCCGTGGCGAGGATGCACCTCCCAGCCCTCGGCCCAGCCACACGGACCACAGGGCTCCCGAGTC
TCAGCAACACCAGCTAAGGGGCATCATGCCTCTCCTGCCACACCCAGGGCCCGTGCCTTGCTGTCCCTGCAGCCC
CCAGACCCAGGCAGACAGGGACAGCCCTTCTGACCACCGCACACACTCGCCACCGCAAAGATCCCCGGGGATGCC
CCTCGCCTGTGTGTGTCCCTCATGGCTGTCACAGCAAATCTCCAGGAGCCCGGAGGTGCCCATGGAAAACACCCC
CAGCTTCCGGAACGTTCTTTCGGACAGGGCCATACCGGAGCAAGACTCAGCTTTCTGGTAGCGGGTGGCTGGGCA
CTGCCTGTGAGATTCTGTCACACTCGCTCCAGATTCAAGGGGTCCAAAAAGTGTAAACAAGTCAAGTGCCCATCC
AGGG**ATG**AACGAACACAGCCCGGCCCGGCCACACCATGGAGCAGGACTCGGCCATGAACAGGAACCAGGCTCTGA
CACCGGCCACGGCGCAGATGCCCCTGGAGGAGTCCACCCTCAGCAAGAGACACACAGACACCGACACGGCGTGCA
ATCCCATTTGTGTGAATGTCCAGGACAGGCCGATTCAGAGACAGGAAGGGGACACGTGGGTGCCAGTGACTGGGG
ATTATGGGGACTGGGGGAAATGGCTAAAGGGCACCCACAAAAGTTAATGATAATGTTCCACAGTTTTTTTTTGA
GATGGAGTCTCACTCTTGTCACCCAGGCTGGAGTGCAATGGTG**TGA**TCTCTGCTCACTGCAAGCTCTGCCTCCTG
GGTTCACGCCATTCTCCCTCCTCAGCCTCCCAAGTAGCTGAGATTACAGGCATATGCCACCACCCCCAGTAGAGA
CGGGGTTTCACCATGTTAGCCAGGCTGGTCACGAACTCCTGACCTCAAGTGATCCCCCACCTCGGCCTCCCAAAG
TGCTGGGATTACAGGCATGAGCCACCGTGCCTCACCAGAATTGTGTACTTTTTTTTCTTCTTCTTCTTCGGCATG
GAGTTTCGCTCTTGTTGCCCAGGCTGGAGTGCAATGGTGCAAACTTGGCTCACCGCAACCTCCTCCTCCCGGGTT
CAATAGATTCTCCAGCCTCAGCCTGCTGAGTAGCTGAGATTACGGGCGCCCGCCACCACACCCAGCTAATCTTTG
TACTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCACGGGCAAAAGAATTTTGTTGAGGGCAAATAATATGAGA
CCACAAAACTGCCTTCCCTGCTCAGTTTTAATTTTCACAGTTTTAATTTTTAGCCTTCTCTGGTTACCAAAATAA
CCACGCTCACGGCCGTTCATTTGAAGATATTTCCAGTTAACGTGTGTGAAGTGGGTTTTTTGAGATGTAATTTAC
AAGCAATAAAATGCTCCTGTCTCTGC

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FIGURE 270

GCGGGCCGAGGAGCCGGGCGCAATGGAGCGGAAGAGGTGGGAGTGCCCGGCGCTCCCGCAGGGCTGGGAGAGGGA
AGAAGTGCCCAGAAGGTCGGGGCTGTCGGCCGGCCACAGGGATGTCTTTTACTATAGCCCGAGCGGGAAGAAGTT
CCGCAGCAAGCCGCAGCTGGCGCGCTACCTGGGCGGCTCCATGGACCTGAGCACCTTCGACTTCCGCACGGGCAA
GATGCTGATGAGCAAGATGAACAAGAGCCGCCAGCGCGTGCGCTACGACTCCTCCAACCAGGTCAAGGGCAAGCC
CGACCTGAACACGGCGCTGCCCGTGCGCCAGACGGCGTCCATCTTCAAGCAGCCGGTGACCAAGATTACCAACCA
CCCCAGCAACAAGGTCAAGAGCGACCCGCAGAAGGCGGTGGACCAGCCGCGCCAGCTCTTCTGGGAGAAGAAGCT
GAGCGGCCTGAACGCCTTCGACATTGCTGAGGAGCTGGTCAAGACCATGGACCTCCCCAAGGGCCTGCAGGGGGT
GGGACCTGGCTGCACGGATGAGACGCTGCTGTCGGCCATCGCCAGCGCCCTGCACACTAGCACCATGCCCATCAC
GGGACAGCTCTCGGCCGCCGTGGAGAAGAACCCCGGCGTATGGCTCAACACCACGCAGCCCCTGTGCAAAGCCTT
CATGGTGACCGACGAGGACATCAGGAAGCAGGAAGAGCTGGTGCAGCAGGTGCGGAAGCGGCTGGAGGAGGCGCT
GATGGCCGACATGCTGGCGCACGTGGAGGAGCTGGCCCGTGACGGGGAGGCGCCGCTGGACAAGGCCTGCGCTGA
GGACGACGACGAGGAAGACGAGGAGGAGGAGGAGGAGGAGCCCGACCCGGACCCGGAGATGGAGCACGTCTAGGG
CAGGTGCTGCGGGGCCACGGGGGCTCCCTGGAGTCGGGTCCTGGCAGTGGGGACTGCCTGGTGAACACAGATGTG
CTTGGGATGACGGGTGCCTCCCAAGAGCTTCCCATCTCCCTAGAAGAGCCCAAGCGTCCCCGTCCCGTGGAGTCG
CTAAAGCCAGCCCTCCCTGTCCTTTCCAGAGGCCCTGCCGAGAGCCCGTGCTGCCTGCTGGAGCCGCCTGCAGAC
GCGGTCCTCGGCCCCACGTGAACCAGGCTCGGCGGCGAAGCCCAGCCTTGGAGACACCCAGGAGGAAGGCCGTGC
TCCTGGCTCCCTCCTCGGCCCGTCCCCACTTCCCGGGGCCTCGGGGCACACAGCTGGGGCTGCCCCCACCCGAAA
GACCCTCCACGCTCGTCCTCTACAGAGTCCGGCTTCGGGAAGTGCCGGGTGCTCCTGGGCCCTGCCTGGCTCCCT
ACGACCTTTGGGCTCGAGGCCAGCTCCTCCCCATGCCCGCTGTCCCAGCTCCTTGAGACTGGAGAGCAGCCAGCA
GGTGCCCGGCAGCTCGGCGCCACGGCTTGCTGACAGCTGGGAGGGTTTCTCGGTCTGGAGGCGTAGTTTTGAAAC
TCACATCACCCACTGTGCAGCGTGAGGACGGGACTCTGGTCTGCTGTGGGGGGCATGCAGGACGGCGCCACTCTC
TGCCCTGCCATGCGGCTGGTGGTGCCACAGAGCCTCACCGTGCCTGAGTGGCATGCCCAGGAGGCCGCTCTCCTT
CAGTAAATGTAACACAGTCGAGGCACGTCATCGGGCAGCCTTCCCTGTGTGCCAACGCCAGCCTTCGCTTCTGAA
AACCAAACTCCAGCCGCTGCCAGTCGGGACTTGGTCGCCCGGCGCTGCCAGAATGCTCCACTGCCAGCCGGCCCC
CCTGCCTCGGTTTCCCTTCTGTTTAGTGGCGACACAGGCACCCAGCTTTGGGGTGGTGCTGACGCTCCCAGGGGT
GCCAGGAGCCACTGGGACAGGGTGAGGCTCCCAGACGCTCCTCGAGGTGCCCAGCTCTCCAGGGAGCTTCTGGCC
CAAGGCCGTCTGAGGGATCTGCTCCTTAACCCCCCAGTGCCTTGGCGAGGGCAGGTTCCAAGCCACAGACGCCTG
CCCCGAGTGGACTCTGCGGCCAGTCCCTGGTGCCCTCCTGGCCCTGCTGCCCAGTGAGGGCTCCTACGGGTGGGT
TCATTGGCCTGGGCCCAGCGAGCCCCCACCTGCATTGACCTTAGGCCCATAGAGAGGGCCTGTCCCGGTGCTGCC
CCAGCCAGGATCTGGTCGCTGCCCCAGGGGGACTGATGGGCAGAGTCGCCCCTGTGGCTGGACTGTGACCATCCC
TGATGGGGCCTGACCGCGGGAGCTGAGGAAGCGCCGCTCCACCGTCTGCCCTCCAAGGACCCGCATGGAGGCAGT
GGGCTGGCAGCTTCCTGCTGCTCCCTGTCAGAGTCAAAGCACAAATCCTCAGGACGGGCTCAAGGGCCAGGGCAG
CCGAGGGAAGCTCCAGGTGGGGACCACGTCTTCCTGAGGTTGGTGCCCACTGGCTGGGACCCTTTGCAGTGGGGT
GGCCTCCCCTCTGTCTGCCTGGTGGAGGGAGCCGTGGGCGTGGGGACGTGACTGAATAAAGCCACCATGGGTGGA
TGTGCTTGG

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FIGURE 271

AGTGTAGCCGGGTCAGCTGGACAGGGTCATCCTGAGGGTGCGACTCCGCCGCG**ATG**GTGACCCGGTTCCTGGGCC
CACGCTACCGGGAGCTGGTCAAGAACTGGGTCCCGACGGCCTACACATGGGGCGCTGTGGGCGCCGTGGGGCTGG
TGTGGGCCACCGATTGGCGGCTGATCCTGGACTGGGTACCTTACATCAATGGCAAGTTTAAGAAGGATAAT**TAA**T
TACACAAACCCTTCACAGACTGCTCTGGTGCCTGGTGGTGCTAGCTCCTCCCACCTCAGCACCTGCTGCATCTGG
AGCAGCCCAAGCCTCAGGATGGACAAGAGGAAACCCACAGCTCAGCTTCAGGCTTCTTATGTTTCTGAAAACAGC
TTGGATATTTTAATGCACGTTGCATTAAACCTCACTGAAACCTGCTCCGTGCCCGGATGTTGATCATGCTGGTGG
CTTGGTTACTGTGACTGTAGCTGGAGTGGCACAGGTGACCCAGGCGTCCTTTCAGCTCCAGAATGTTGCAAGTCT
AGGAGAGTGTTCCAATGGCTGACAGAAACTGCCTATTTGAAATGGCTCATAAGTAGTATCTGCAGTGTGTTCATC
CGTTGCTGCCTTAACAAGTCACCCACACGTAGTGGCTTAAAGCAACGAACATTCACTCTCTCACAGTCTGTGTCA
GTCGGGGATTTGGGAGTGATGTATCTGGGTGGTTGTGGCCCAGAGTCTCTCATGAGGTTGCAGTTAAGACATCAG
CCAAGGCCACTTCGTCTGAGGAAGGCTCAACTGGGGCTGGAGCCACTTCCAAGCCAGTGCCCTCACGTGGCTGTC
GGTGACAGCCACAGTTCCTTCCCATGGGGGCCCCTACACGAAGCTGCTTGAGCATCCTCACGGCATGGCCTCTGC
CTTCCCCAGAGCAGGTGAACCAAGGGAGAGGAAGGAGCAAGCCACAGTGCTTCTATGAGCCACCCTGAGAAGTCT
CACGTGATCACTTCCGCCACAGCCTGTTTATCAAAAGCAAGCCCCCCAGGCCCAGCCCACGTGCAGAGGGAGGAG
AATGAGGTTCTGTGTTTTGAAGGGAAGAATATCAGAATTGGTAGACATTTCAAACTGTCACATTAGGGATACAAA
AATGAACAGGCTGGGAGTGGTGGCTCAGCCTACAATCCCAACACTTTGGGAGGCTGAGGAAGGGGCATCACTTGA
ACCAGGAGTTCAGTACTAACCTGGGCAACAAAGAGGCCCCTGTCTCTGATAAAAAGAAAAAAAATGAAAAAATAA
AAATGAACAGGTATAAAAAG

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FIGURE 272A

GCCTGAGGTGCCCGCCCTGGCCCCAGGAGAATGAACCAGCCGCAGAGGATGGCGCCTGTGGGCACAGACAAGGAG
CTCAGTGACCTCCTGGACTTCAGCATGATGTTCCCGCTGCCTGTCACCAACGGGAAGGGCCGGCCCGCCTCCCTG
GCCGGGGCGCAGTTCGGAGGTTCAGGTCTTGAGGACCGGCCCAGCTCAGGCTCCTGGGGCAGCGGCGACCAGAGC
AGCTCCTCCTTTGACCCCAGCCGGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGCAGCCTCTCTTCA
TCCACATTCCTGGGACCGGGACTCGGAGGCAAGAGCGGTGAGCGGGGCGCCTATGCCTCCTTCGGGAGAGACGCA
GGCGTGGGCGGCCTGACTCAGGCTGGCTTCCTGTCAGGCGAGCTGGCCCTCAACAGCCCCGGGCCCCTGTCCCCT
TCGGGCATGAAGGGGACCTCCCAGTACTACCCCTCCTACTCCGGCAGCTCCCGGCGGAGAGCGGCAGACGGCAGC
CTAGACACGCAGCCCAAGAAGGTCCGGAAGGTCCCGCCGGGTCTTCCATCCTCGGTGTACCCACCCAGCTCAGGT
GAGGACTACGGCAGGGATGCCACCGCCTACCCGTCCGCCAAGACCCCCAGCAGCACCTATCCCGCCCCCTTCTAC
GTGGCAGATGGCAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCCGGGCCAGGCGGGCTTCGGGCCCATGCTG
GGTGGGGGCTCATCCCCGCTGCCCCTCCCGCCCGGTAGCGGCCCGGTGGGCAGCAGTGGAAGCAGCAGCACGTTT
GGTGGCCTGCACCAGCACGAGCGTATGGGCTACCAGCTGCATGGAGCAGAGGTGAACGGTGGGCTCCCATCTGCA
TCCTCCTTCTCCTCAGCCCCCGGAGCCACGTACGGCGGCGTCTCCAGCCACACGCCGCCTGTCAGCGGGGCCGAC
AGCCTCCTGGGCTCCCGAGGGACCACAGCTGGCAGCTCCGGGGATGCCCTCGGCAAAGCACTGGCCTCGATCTAC
TCCCCGGATCACTCAAGCAATAACTTCTCGTCCAGCCCTTCTACCCCCGTGGGCTCCCCCCAGGGCCTGGCAGGA
ACGTCACAGTGGCCTCGAGCAGGAGCCCCCGGTGCCTTATCGCCCAGCTACGACGGGGGTCTCCACGGCCTGCAG
AGTAAGATAGAAGACCACCTGGACGAGGCCATCCACGTGCTCCGCAGCCACGCCGTGGGCACAGCCGGCGACATG
CACACGCTGCTGCCTGGCCACGGGGCGCTGGCCTCAGGTTTCACCGGCCCCATGTCACTGGGCGGGCGGCACGCA
GGCCTGGTTGGAGGCAGCCACCCCGAGGACGGCCTCGCAGGCAGCACCAGCCTCATGCACAACCACGCGGCCCTC
CCCAGCCAGCCAGGCACCCTCCCTGACCTGTCTCGGCCTCCCGACTCCTACAGTGGGCTAGGGCGAGCAGGTGCC
ACGGCGGCCGCCAGCGAGATCAAGCGGGAGGAGAAGGAGGACGAGGAGAACACGTCAGCGGCTGACCACTCGGAG
GAGGAGAAGAAGGAGCTGAAGGCCCCCCGGGCCCGGACCAGCCCAGACGAGGACGAGGACGACCTTCTCCCCCCA
GAGCAGAAGGCCGAGCGGGAGAAGGAGCGCCGGGTGGCCAATAACGCCCGGGAGCGGCTGCGGGTCCGTGACATC
AACGAGGCCTTTAAGGAGCTGGGGCGCATGTGCCAACTGCACCTCAACAGCGAGAAGCCCCAGACCAAACTGCTC
ATCCTGCACCAGGCTGTCTCGGTCATCCTGAACTTGGAGCAGCAAGTGCGAGAGCGGAACCTGAATCCCAAAGCA
GCCTGTTTGAAACGGCGAGAAGAGGAAAAGGTGTCAGGTGTGGTTGGAGACCCCCAGATGGTGCTTTCAGCTCCC
CACCCAGGCCTGAGCGAAGCCCACAACCCCGCCGGGCACATGTGAAAGGTATGCCTCCGTGGGACGAGCCACCCG
CTTTCAGCCCTGTGCTCTGGCCCCAGAACGGCCACTCGAGACCCCGGGCTTCATCCACATCCACACCTCACACAC
CTGTTGTCAGCATCGAGCCAACACCAACCTGACAAGGTTCGGAGTGATGGGGGCGGCCAAGGTGACACTGGGTCC
AGGAGCTCCCTGGGGCCCTGGCCTACCACTCACTGGCCTCGCTCCCCCTGTCCCCGAATCTCAGCCACCGTGTCA
CTCTGTGACCTGTCCCATGGATCCTGAAACTGCATCTTGGCCCTGTTGCCTGGGCTGACAGGAGCATTTTTTTTT
TTTCCAGTAAACAAAACCTGAAAGCAAGCAACAAAACATACACTTTGTCAGAGAAGAAAAAAATGCCTTAACTAT
AAAAAGCGGAGAAATGGAAACATATCACTCAAGGGGGATGCTGTGGAAACCTGGCTTATTCTTCTAAAGCCACCA
GCAAATTGTGCCTAAGCGAAATATTTTTTTTAAGGAAAATAAAAACATTAGTTACAAGATTTTTTTTTTCTTAAT
GTAGATGAAAATTAGCAAGGATGCTGCCTTTGGTCTCTGGTTTTTTTAAGCTTTTTTTGCATATGTTTTGTAAGC
AACAAATTTTTTTGTATAAAAGTCCCGTGTCTCTCGCTATTTCTGCTGCTGTTCCTAGACTGAGCATTGCATTTC
TTGATCAACCAGATGATTAAACGTTGTATTAAAAAGACCCCGTGTAAACCTGAGCCCCCCCGTCCCCCCCCCCCC
CCGGAAGCCACTGCACACAGACAGAACGGGGACAGGCGGCGGGTCTTTTGTTTTTTTGATGTTGGGGGTTCTCTT
GGTTTTGTCATGTGGAAAGTGATGCGTGGGCGTTCCCTGATGAAGGCACCTTGGGGCTTCCCTGCCGCATCCTCT
CCCCTCAGGAAGGGGACTGACCTGGGCTTGGGGGAAGGGACGTCAGCAAGGTGGCTCTGACCCTCCCAGGTGACT
CTGCCAAGCAGCTGTGGCCCCCAGGGCTACCCTACACAACGCCCTCCCCAGGCCCCCCTAAGCTGCTCTCCCTTG
GAACCTGCACAGCTCTCTGAAATGGGGCATTTTGTTGGGACCAGTGACCCCTGGCATGGGGACCACACCCTGGAG
CCCGGTGCTGGGGACCTCCTGGACACCCTGTCCTTCACTCCTTTGCCCCAGGGACCCAGGCTCATGCTCTGAACT
CTGGCTGAGAGGATGCTGCTCAGGAGCCAGCACAGGACACCCCCCACCCCACCCCACCATGTCCCCATTACACCA
GAGGGCCATCGTGACGTAGACAGGATGCCAGGGGCCTGGCCAGCCTCCCCCAATGCTGGGGAGCATCCCTGGGCC
TGGGGCCACACCTGCTGCCCTCCCTCTGTGTGGTCCAAGGGCAAGAGTGGCTGGAGCCGGGGGACTGTGCTGGTC
TGAGCCCCACGAAGGCCTTGGGCTGTGCGTCCGACCCTGCTGCAGAACCAGCAGGGTGTCCCCTCGGGCCCATCT
GTGTCCCATGTCCCAGCACCCAGGCCTCTCTCCAGGTCTCCTTTTCTGGTCTTTTGCCATGAGGGTAACCAGCTC

FIGURE 272B

TTCCCAGCTGGCTGGGGACTGTCTTGGGTTTAAAACTGCAAGTCTCCTACCCTGGGATCCCATCCAGTTCCACAC
GAACTAGGGCAGTGGTCACTGTGGCACCCAGGTGTGGGCCTGGCTAGCTGGGGGCCTTCATGTGCCCTTCATGCC
CCTCCCTGCATTGAGGCCTTGTGGACCCCTGGGCTGGCTGTGTTCATCCCCGCTGCAGGTCGGGCGTCTCCCCCC
GTGCCACTCCTGAGACTCCCACCGTTACCCCCAGGAGATCCTGGACTGCCTGACTCCCCTCCCCAGACTGGCTTG
GGAGCCTGGGCCCCATGGTAGATGCAAGGGAAACCTCAAGGCCAGCTCAATGCCTGGTATCTGCCCCCAGTCCAG
GCCAGGCGGAGGGGAGGGGCTGTCCGGCTGCCTCTCCCTTCTCGGTGGCTTCCCCTACGCCCTGGGAGTTTGATC
TCTTAAGGGAACTTGCCTCTCCCTCTTGTTTTGCTCCTGGCCCTGCCCCTAGGTCTGGGTGGGCAGTGGCCCCAT
AGCCTCTGGAACTGTGCGTTCTGCATAGAATTCAAACGAGATTCACCCAGCGCGAGGAGGAAGAAACAGCAGTTC
CTGGGAACCACAATTATGGGGGGTGGGGGGTGTGATCTGAGTGCCTCAAGATGGTTTTCAAAAAAATTTTTTTAA
AGAAAATAATTGTATACGTGTCAACACAGCTGGCTGGATGATTGGGACTTTAAAACGACCCTCTTTCAGGTGGAT
TCAGAGACCTGTCCTGTATATAACAGCACTGTAGCAATAAACGTGACATTTTATAACG

FIGURE 273A

GCGGGCGGCGGCGACCGCGGCGCCAGTGAGGGGGCCCTGGGGCCCGGGCGGCTCCGGGCCGGGGCCCCGCCGCGG
GACGGACCATGCTACGCTCCACTGGCTTCTTCCGGGCCATTGACTGCCCCTATTGGTCTGGGGCGCCCGGGGGGC
CCTGCCGGCGGCCCTACTGCCACTTCCGGCACCGCGGGGCCCGGGGCTCCGGCGCGCCCGGTGACGGCGGAGAGG
CGCCCCCCGCAGCAGGGCTGGGTTACGACCCCTACAACCCTGAGCTGCCCAAGCCCCCCGCGCAGAGGGAGAATG
GCACCCTGGGCCTGGGGGAGGAGCCGCGCCCGGATGTGCTGGAGTTGGAGCTGGTCAACCAGGCCATCGAGGCCG
TGCGCAGTGAGGTGGAGCTGGAGCAGCGGCGCTACCGGGAGCTGCTGGAGACGACCCGTGAGCACCGCTCCGCCG
AGGCCCCCGCCCTGGCGCCCCGCGGCCCCAACGCCAGCCCCACTGTGGGCCCGGACGAGGATGCCTTCCCACTGG
CCTTCGACTACAGCCCCGGCAGCCACGGCCTATTAAGCCCTGATGCCGGCTACCAGCCCACCCCACTGGCCGCCC
CTGCCGAGCCGGGCAGCAAGTACTCGCTGGCGTCCCTGGACAGGGGTCAGGGCAGAGGTGGAGGGGGTGGCGGTG
CCCTGGAATACGTCCCCAAGGCTGTGAGCCAGCCCCGGCGGCACAGCCGCCCCGTTCCCAGTGGCAAGTACGTGG
TGGACAACTCCAGGCCACCCACAGACCTGGAGTATGACCCTCTCTCCAACTACTCGGCCCGGCACCTCAGCAGGG
CCAGCTCCCGGGATGAGCGGGCCGCCAAGCGGCCCCGGGGCTCCCGCGGCAGTGAGCCCTACACACCTGCTCCCA
AGAAGCTCTGTGACCCCTTTGGCAGTTGCGATGCAAGGTTCTCAGACTCAGAAGATGAGGCCGCCACGGTCCCAG
GTAACGAGCCCACCACGGCCAGCACCCCCAAAGCCAGGGCCGACCCTGAGATCAAGGCCACCGGGCAGCCACCCT
CCAAAGAGGGCCTGGAGGCCGAGGGGGGCGGCCTGCGGGAGACCAAGGAGACGGCCGTGCAGTGCGACGTGGGGG
ACCTCCAGCCGCCCCCAGCCAAGCCCGCCTCCCCAGCCCAGGTCCAGTCCTCACAGGATGGGGGCTGCCCCAAGG
AGGGAAAACCCAAGAAGAAAAAAACCGGGGCCCCACCTGCCCCCAGCTGCAAAGACGGGGCCCAGGGGAAGGACA
AGACCAAGGACAAGGGCCGAGGGCGGCCTGTGGAGAAGCCCCGTGCGGACAAGAAGGGCCCGCAGGCCAGCAGCC
CCCGGCGCAAGGCAGAGCGGCCGGAAGGGACCAAGAAGAAGCCATCTTCGGCCACTCCTGTGGCCACCTCAGGGA
AAGGGAGGCCTGACCGGCCAGCGCGGCGGCCGAGCCCCACAAGCGGGGACTCCCGACCGGCGGCCGGCAGAGGCC
CACCCCGCCCCCTCCAGCTGCCCGACAGGAAGAGCACCAAGGCCCCGTCGGGGAAGCTAGTGGAGCGGAAAGCCC
GCTCACTAGACGAGGGCGCCTCCCAGGACGCCCCCAAGCTGAAGAAGCGGGCCCTGAGCCACGCCGACCTCTTTG
GGGACGAGAGTGAGGACGAGGCCGCAGGGCCAGGGGTGCCGAGCGTGTGGCCCTCTGCCCTCCCCAGCCTCAGCT
CGGACTCAGACTCCGACTCAGACTCCAGCCTGGGCTTCCCGGAGGCGCAGGGGCCGCCCAAGCGGCTCAAGGCCT
CCCCGCCCCCCTCCCCCGCCCCATCCTCCTCCTCCTCCTCCTCCTCCACCTCCAGCGCGGGGGCGGATGTGG
ACTACTCGGCCCTGGAGAAGGAGGTGGACTTTGACTCCGACCCCATGGAGGAGTGCCTGCGGATCTTCAACGAGT
CCACCAGCGTCAAGACGGAGGACAGAGGCCGGCTGGCCCGGCAGCCCCCCAAGGAAGAGAAGAGTGAGGAGAAGG
GGCTTTCGGGTCTGACCACTCTGTTCCCCGGGCAGAAGAGGAGGATCTCCCACCTTTCCAAGCAAGGCCAGGAGG
TGGAGCCCCCGAGGAGGGGTCCCGCGGTGCCCCCGGCCCGGCCCCCGACGGCGCAGGAGGTGTGCTACCTGCGGG
CCCAGCAGGCGCAGAGGGCATCGGCGAGCTTGCTGCAGGCCCCCGCCAGGCTGGCAGAGAAGTCGCCCTCCGTCC
ACATTTCCGCCCCTGGCGAGAAGAGGAGGATCGCCCACATCCCCAACCCCCGCCTGGCTGCAGCCCCCACAGGTG
CCAAGAGGACCCTTGCGGCCAGCGGCAGCCAGTCCTCCAACGGCCCTGAGCCAGGTGGCCAGCAGCTGAAAACAC
GCACATTGTCGGGGATGGCGTCCAAGACTACCACCACCATCATCCCTAAGCGAATCGCCCACAGTCCATCCTTAC
AGAGTTTAAAGAAACCCATTATCCCCAAAGAGTTTGGGGGCAAAGTCCCCACCGTCATCCGCCAGCGCTATCTCA
ACCTGTTCATCGAGGAGTGTCTCAAGTTCTGTACCTCCAACCAGGAGGCCATAGAGAAGGCACTGAACGAGGAGA
AGGTGGCCTATGACCGCAGCCCCAGCAAGAACATCTACCTGAATGTGGCCGTGAACACCCTCAAGAAGCTCAGGG
GCCTGGCCCCCAGCGCTGTGCCCGGCCTCAGCAAAACCAGTGGCCGCAGGGTTGTGTCCCACGAGGTGGTGTTGG
GGGGCAGGTTGGCCGCCAAGACCAGCTTCTCGCTCAGCCGTCCAAGCAGCCCCCGGGTGGAGGACCTGAAAGGGG
CTGCCCTGTACAGCCGCCTCAGGGAGTACCTGCTCACCCAGGACCAGCTCAAGGAGAACGGCTACCCCTTCCCGC
ACCCAGAGCGGCCCGGGGGCGCAATCATCTTCACAGCTGAGGAGAAGAGGCCCAAGGACTCTTCCTGCAGGACCT
GCTGCCGCTGTGGCACCGAGTACCTCGTGTCCTCTTCAGGCCGCTGCATCCGGGACGAGGAGTGTTATTACCACT
GGGGACGGCTGCGCCGGAACCGGGTGGCCGGAGGCTGGGAGACCCAGTACATGTGCTGCTCGGCTGCCGCCGGCT
CTGTCGGCTGCCAAGTCGCAAAGCAACACGTGCAGGATGGCCGGAAGGAGCGCCTTGAGGGCTTCGTGAAGACCT
TTGAGAAAGAGCTCTCAGGAGACACCCACCCGGGGATCTACGCCCTGGACTGCGAGATGTCCTACACCACATATG
GCCTGGAGCTGACGCGCGTCACGGTGGTCGACACGGACGTGCACGTGGTTTATGACACCTTCGTGAAGCCTGACA
ACGAGATCGTGGACTACAACACCAGGTTTTCGGGGGTGACGGAGGCTGACCTTGCCGACACAAGTGTCACGCTGC
GTGACGTCCAGGCCGTTCTGCTGAGCATGTTCAGCGCTGACACCATCCTCATCGGACACAGCCTGGAGAGCGACC
TCCTGGCCCTGAAGGTCATCCACAGCACCGTGGTGGACACGTCTGTGCTCTTCCCCCACCGCCTGGGCCTCCCCT

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FIGURE 273B

ACAAGCGGTCCCTGCGGAACCTCATGGCCGACTACCTCAGACAGATCATCCAGGACAATGTGGATGGGCACAGCT
CCAGCGAGGACGCCGGCGCCTGCATGCACCTGGTGATCTGGAAGGTTCGAGAAGACGCCAAGACCAAGCGATGAC
GCCTGCCCGCCTCCCACCCGCCTCTCCTGCCGTCCCGCTGGTCCTTAGCCCCATGCCTCTTCCAAAACAGTGCAA
TAAATCTCCGGTAACCCGTCCACCTGGCCGAGGCAGCCCAGAGCAGCGGGATGAGCTGGCGGCCAGAGAACGCCC
AGCCCAGCCCACCCCCGCTCACGTCCTGCCGCACCCCTCCGCCGGTCCCCACCCTCTGCCCCCCAGCCCTCTGGC
GTCTCTAGAAACTGCTGCTGATGGAGACCAGGACAGAGCCCGCCCCCACCCGGCCCGCAGCCCCTCCTGCCCCTC
CTGCCAGGCCCTCCCTCCCGGGTGGTGGCCGGCACCTCTGCTCCTCACGTGGGTCGCGGGGCGGGCTTGTCCCAG
GTTTGTTTGAGACAGTCTTTTTTTATTTTGTATTGTTATTTTTATTATTTTTAATTTAAACCTGATGACTTGCAC
AGCATCTTTCCCACCGGGAAGAGCGGGCCTGCTGCCTTCCCTCCTGCGGGGTGGGGGTGGGACAGACCCCAGTGG
GGGCCAGGGCCACACTCAGCGCAGTGTGGGCTGGACCCGCCTCTGTGCTCCAGGGGCTGGCCGGTCTTCGGGGGC
GCCGGCTTCCACCACTCGCCGCCCCACCCCTGCACTCCGTGACCTCTGAGAACCCAGCTGGCCCCTCGTTAGCCC
CAGGGTCTGCCGTCTAGAGGGAGCCCACCGGCCTCCGGACACTGTCTTCCCGCTAGAGCCCCGTCCTCCTCTGCG
GGGCTCTCCGGACCCCCTTCCCCCTCACCTCCAGGCAGGGACAGAATAAATGTTTGTATGGATTTT

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FIGURE 274

ATGTCGGCGGCCGTGGCGTGCGTGGATTACTTCGCCGCCGACGTGCTCATGGCCATCTCTTCGGGCGCCGTGGTG
CACCGCGGGCGGCCCGGCCCCGAGGGCGCGGGCCCCGCCGCCGGCCTGGATGTGCGCGCGGCGCGCCGCGAGGCC
GCCTCACCCCGGGACCCCGGGGCCACCCCCGCCGCCCCCCGCCGCTTCTGGCCCGGGCCCCGGCGCCGCCGCGGC
GCCCCACCTGCTGGCCGCCAGCATCCTGGCCGACCTGCGCGGCGGACCCGGAGCCGCCCCGGGGGGCGCCTCGCC
CGCCTCCTCCTCCTCAGCCGCCTCGTCCCCGTCCTCGGGCCGCGCCCCCGGCGCCGCGCCCTCCGCCGCCGCCAA
GAGCCACCGCTGTCCCTTCCCGGACTGCGCCAAAGCCTACTACAAGTCCTCGCACCTAAAGTCGCACCTGCGGAC
GCACACAGGGGAACGCCCTTTTGCTTGTGACTGGCAGGGCTGCGACAAGAAGTTCGCCCGCTCCGACGAGCTGGC
CCGCCACCACCGGACGCACACGGGCGAGAAGCGCTTCTCCTGCCCTCTGTGCTCCAAGCGCTTCACCCGCAGTGA
CCACCTGGCCAAGCACGCCCGCCGCCACCCCGGCTTCCACCCGGACCTGCTCCGGCGCCCTGGTGCCCGCAGTAC
CTCCCCCAGCGACTCGCTGCCCTGCAGCCTGGCCGGGAGCCCTGCGCCCAGCCCCGCGCCCAGCCCAGCCCCCGC
AGGCCTGTAGGGCCCTCGTGCAGCCCACCCTGACCGCCAGGATGCTTCTGCCATCCAGGGGTGTAGTGAGGACCC
ACGGGGAGCCTGGGCCCCTTCCAGCCGTGGGCAAACCCTGAAGACACCCCTGCCCCCCTCCAGAGAGTGAGGAGG
GGGCCTGAGACTGGACCTGGGTCTGCCTGACCTCAGAGTGTCCAGGGGCTTGGAGAGACCTGCGCCCACCCCTCC
ACTCTCCCAGGAGTCGCTGATCACTGGGACCTGGTTCCAGCCGTTTGCAGGGGAGGCGGCTCCGAGAGGCGTGTG
CTTTCCGTGGGTGGCGCCCCTCCCCCGCCCTGCCTGGCCTCATCCTTGTATTTAATTAATTAAACAAGCCCCTTT
TTAAACCCT

FIGURE 275

ATGAGGACGCCAGGCGTGGGGGCCCTGCTGCCATCGCGGGACTGCCCCCTCGACAGCTTCCCGTCAGTCCTACTG
CAGAGGGGCCAGGACAGCGCACTCTGGGTCCTGAGGCCCGTGGGGGCCGCCGCGGGGTCGGGGCTGCGAGGCAGC
GCCCGCCGTTCCATGCGCGGCTCACGTTTCGGAACACGTCTGCCTTTCATGCCTCCCGAAGAGCCTCCCCGCATC
CCGTGCCCCCTGCTCGCTGCTGCCGCTGACCCTTGGGCGCTGCGCTGGTCCAGAGCGTGTTGTCCTCTGACGCCG
TCAGAACCTGAGCTCCCTGCGAGCTGGGACTCCGCCGTGTCTTCATTGCCTCCAGTGCAAAGCAACTGCTTGCAA
GAGAACAAAATTCCACAAGACACTGTGATGAAGAGGATTTTGGAAATCGAAGTATTTGGGGCCGCCCCTCCCTCC
CTGCGGGCTGTGGATATTCACGGGCGCCTGGGGGCTGAGTCTCTGGTCCACCCTGTGTCACCTGCTCCTGGTACA
CCCCAGCACGGGGCCCTGGGTGACGGGACAGACACCAGCCAGGATGGAGGAGGCCTTGGTGTCCCTGAAGCAGCT
CCTAGCATGGATGCCGTGGACCCCAGAGATGCTCCCTGCAGGACCCCACGCAGGGGCTTCCTTGCAGTCGGCCAG
CAGGGTGACCTCGCTGTGTCCTCCGGTTGGAGGGTGGCAGCTGCTGCCCCACCTTCCCACCTGGCTGGTGGAACC
TTGTCCTCTGTCCCCCAGGAGCTTGCAGCTGCCCCCCCGCCCCCCACCGTGCGTGGTGGCCCCCCTGGACTGGAC
CATGGCCTGTCCGGAGGTGGCTTCCACAGGTTGGCAAAGGTCATCCGTGAATAA

FIGURE 276

GGCTGCTGTCTGGGGCGGTAGCTGGGGGGGCGCTCTCCCCCCTGCCCGCGACTCGGAGCACCCCCACCCCTCCCC
TGCCGGGCCAGGCCGGGCGGCGTTGTTGGCGGGGGCCCCGGTGGAGGCCCGGCCTGGGCGGCGCCCGCCATGAAT
GGGCTGTCGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCGCCCTGCCCCGGCCGCATCGCTGCCAAGCTCGCC
TTCCTGCCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGCCCGAGCCGGGGCCTGGTGGGGCCGGGGCCGCCCCC
TTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGCACCTGACGGAGCGTGCCGACTTCCAG
TACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCGCCCGCGGCAACCGCGTCTCCTGCATG
TATGTTCGCTGCGTGCCTGGTGCCAGGTACACGGTCCTCTTCTCGCACGGCAATGCCGTGGACCTGGGCCAGATG
AGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCTTCTCCTACGACTACTCCGGCTACGGTGCC
AGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACGCCGCCTGGCAGGCCCTGCGCACCAGGTAC
GGCATCAGCCCGGACAGCATCATCCTGTACGGGCAGAGCATCGGCACGGTGCCCACCGTGGACCTGGCCTCGCGC
TACGAGTGTGCCGCGGTGGTGCTGCACTCGCCGCTCACCTCGGGCATGCGCGTCGCCTTCCCCGACACCAAGAAG
ACCTACTGCTTCGACGCCTTCCCTAAGTGAGCGGCCCGGGCGGGGACGGGGGCGGGGCGGGGCCCGGGCCGGGCG
CGAAGTCTCACCGGCTCCACGACCCTCCCGCAGCATCGAGAAGGTGTCCAAGATCACGTCTCCCGTGCTCATCAT
CCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGGCGCTCTACGAGCGCTGCCCCAAGGCGGTGGA
GCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACATCGAGCTCTACAGCCAGTACCTGGAGCGCCTGCGTCGCTT
CATCTCCCAGGAGCTGCCCAGCCAGCGCGCCTAGCGGCGGCCCCAACCGGCCGGACCTCAGCAATAAGGCGGCCC
CCGGACCTCACCCCGCGCCGGCCCCCACCCAGGGGCTGCATGTGGACCCCCCGGGCGGCCCAGGGGACCCCGCCC
CGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCACTCCTTTCCTTTTGGAAGCAAGAAGAAAATA
CGTGAAAACGGAAATTAAAGATTTAAAATTTT

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FIGURE 277

AGACTTGGCGAAGCGCTGCGCTCGCGCCCGGATCCCTCAGGCGGCTGCAGGCTTCAGCCTGCGCTGGTTGGTGAA
ACAGAGATGTCAGAAAAGGAGAACAACTTCCCGCCACTGCCCAAGTTCATCCCTGTGAAGCCCTGCTTCTACCAG
AACTTCTCCGACGAGATCCCAGTGGAGCACCAGGTCCTGGTGAAGAGGATCTACCGGCTGTGGATGTTTTACTGC
GCCACCCTCGGCGTCAACCTCATTGCCTGCCTGGCCTGGTGGATCGGCGGAGGCTCGGGGACCAACTTCGGCCTG
GCCTTCGTGTGGCTGCTCCTGTTCACGCCTTGCGGCTACGTGTGCTGGTTCCGGCCTGTCTACAAGGCCTTCCGA
GCCGACAGCTCCTTTAATTTCATGGCGTTTTTCTTCATCTTCGGAGCCCAGTTTGTCCTGACCGTCATCCAGGCG
ATTGGCTTCTCCGGCTGGGGCGCGTGCGGCTGGCTGTCGGCAATTGGATTCTTCCAGTACAGCCCGGGCGCTGCC
GTGGTCATGCTGCTTCCAGCCATCATGTTCTCCGTGTCGGCTGCCATGATGGCCATCGCGATCATGAAGGTGCAC
AGGATCTACCGAGGGGCTGGCGGAAGCTTCCAGAAGGCACAGACGGAGTGGAACACGGGCACTTGGCGGAACCCA
CCGTCGAGGGAGGCCCAGTACAACAACTTCTCAGGCAACAGCCTGCCCGAGTACCCCACTGTGCCCAGCTACCCG
GGCAGTGGCCAGTGGCCTTAGAGGGAGCCTGCCCTGCCCCCACCGCCCACCACCTCCTCCCCTTCATTCCTGCTG
CTACCCCTGGTCCCGAGGGCTGGGAGTACCTGGGGCCCCATCCCCCCAGCTGGGATGGTGGAAGCCGGTGGTGGC
CACGGACCGCCCCCCTCCTGCCAGGGCCACAGAACCCGTGTTCATCTCATCCGAGAGCGGAGTTCCTCACAAGCA
CTCCCCAGCAGCCCTTGGCCTCTGCCGTCCACAGGACGCCCTCTTGCTCCCGGAAACGTGTGGTCACCCGCCGTC
CACTGCACGGCTGGTACGGCCTTGTCTTCAGGTCTCGAGGCCTGACTCCGGGGGACAGGTGGCAGCAGGTCGGCC
GCCCTCCCGTCCTCCCAGAGCTGCTGGCGCTGAGGTCAGAGCGGGTCTGATGGGGAGCTCCGTCTCACCGGCCAC
CCGCCGTCACCATGGCAGATGCCCTTGGCCGGAACTAATAAGAGGCGTCGGGGCCAGCTTCCGGTCCCCTGCAGT
GATAGAGGGCTTGGTGCCTAGCTGAGTCCTCGCTGTCCCCGCCATCCCCTGATCTGTGCGGCTCCAGCCTCGCCC
CCTCCCCACGTGCACCATACCTGGGGAGTTCCTGGTCCAGGGTATCCTGGGGCCACCCTCCCTGCCTCCAAAACA
GGGATCCCTGGCAGGCTGTCTTTCCACGCCCCTGAGTTCAGAGTCGGGGACCCAGGCCAGGTCGGGAGCACAGCC
GCTCCCCAAACCCAGCAAACCGGCAGAGAGCCGGTTTCCCAGCAGCCGGAGCCCTGCAGGAGAGGCCTTTGTGTT
TTGTTTTGTTTTGTTTTTTCTCTTTTGAGACAAGAGTTTCACTCTGTCGCCCAGGCTGGAGTGCAGTGGTGTGAT
CTCGGCTCACTGCAACCTCTGCCTCCCGTGTTCAAGCAGTTCTCCTGCCTCAGCCTCCCAAATAGCTGGGATTAC
AGTTGCCTGCCACCACGCCCAGCTAATTTTTATATTTTTAGTACAGATGGGGTTTCACCATGTTGGCCAGGCTGG
TCTCGAACTCCTGACCTCAAGTGATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATAATAGGTGTCAGCCACCG
CGCCCAGCCTGGAGTGGCCTTTTATGAGAGGGGACCCGTCAAATCTGTGCCTTATGGAGGGGTCCGGCAGCGGCC
ACAATTGTCTTGTCCCCTCACCCCCCAACTCCCCCTGGAACACCTCTCCCAGGCAAGACATTTTCACAGCACCAT
TCACAACGGTTGGGCCAAAAAGAAACTTTTCCTTCATCATTTCCTGCACTCGCTGACCACAACTTTGGACACCCC
AGGCTGCCACCCCTCCCCACCCGTTCACCCCCAGGATGCTGTTGCTGTAGGACGCCTGCTGCCCTGGAGCCCTCC
CCAGGATGTGAGCCAGTCCCCTCGCTGGTACGGAATGCCGCTGGGTGCCCGGAGGCGGCCATGGTGTCTCGATGG
ACGGCAGCCAGGATGGAGCACCCATGGGTCTCACGGCCATGCTTCAGGGTCTTCAGGTCCTGCCCCCGGCCAGTC
TGCCAAGAGGCACCCCCTTCCCCAGCCTCTCGCCTGCACTGATGCAGACAAAATCTCACCTGGCAGGCCCAACCC
CCCCCCACCCCTCCCCCGCCGTGTGTGGCCCCTCGCCGCATCGTTGGGGTTTTGTTATGTGAAAATATCCTGGAA
ATAAATACATGTTTCTGCACTTAG

FIGURE 278

CAGCAGAATGTCTCCTGCCCCCGAGAGCGACCCCGAGGCCACTGAGAAGAGCAGCGCGGCCTGGCCGGCCCGAAC
GCCTGCGTCTCAGTAGCTGGGAGCCACGGGCCCACGCCCGCCCACCGGCCGCAGTGATGTTCTAGCCACAGAGGA
GCCAAGACCTCAGGTTTCCAGAGACTTGGGATTTGCACGGCAGCAGAGTCACCGTGGAGAGGCAGGGTATCACA
AACTTATGGATTTTGACAAGAAAGGAGGGAAAGGGGAGACGGAGGAGGGCCGGAGAATGTCCAAGGCCGGCGGGG
GCCGGAGCAGCCACGGCATCCGGAGCTCGGGGACCAGCTCGGGGGTCCTGATGGTGGGCCCCAACTTCCGCGTCG
GCAAGAAGATCGGCTGCGGCAACTTCGGGGAGCTCCGCCTAGGAAAGAATCTCTATACAAATGAATACGTGGCTA
TCAAATTGGAGCCGATCAAGTCCCGGGCCCCGCAGCTGCACCTGGAGTACCGGTTCTACAAGCAGCTCAGCGCCA
CAGAGGGCGTCCCTCAGGTCTACTACTTCGGTCCGTGCGGGAAGTACAACGCCATGGTGCTGGAGCTGCTGGGGC
CCAGCCTGGAGGACCTGTTCGACCTGTGCGACCGGACCTTCACGCTCAAGACGGTGCTGATGATCGCCATCCAGC
TGATCACGCGCATGGAGTATGTGCACACCAAGAGCCTAATCTACCGGGACGTGAAGCCCGAGAACTTCCTGGTGG
GCCGCCCGGGGACCAAGCGGCAGCATGCCATCCACATCATCGACTTCGGGCTGGCCAAGGAGTACATCGACCCCG
AGACCAAGAAGCACATCCCGTACCGCGAGCACAAGAGCCTGACGGGCACGGCGCGCTACATGAGCATCAACACGC
ACCTGGGCAAGGAGCAGAGCCGCCGCGACGACCTGGAGGCGCTGGGCCACATGTTCATGTACTTCCTGCGCGGCA
GCCTCCCCTGGCAGGGGCTCAAGGCCGACACGCTCAAGGAGCGGTACCAGAAGATCGGGGACACCAAACGCGCCA
CGCCCATCGAGGTGCTCTGCGAGAACTTCCCAGAGGAGATGGCCACGTACCTGCGCTATGTGCGGCGCCTGGACT
TCTTCGAGAAGCCCGACTATGACTACCTGCGGAAGCTCTTCACCGACCTCTTCGACCGCAGTGGCTTCGTGTTCG
ACTATGAGTACGACTGGGCCGGGAAGCCCCTGCCGACCCCCATCGGCACCGTCCACACCGACCTGCCCTCCCAGC
CTCAGCTCCGGGACAAAACCCAGCCGCACAGCAAAAACCAGGCGTTGAACTCCACCAACGGGGAGCTGAATGCGG
ACGACCCCACGGCCGGCCACTCCAACGCCCCGATCACAGCGCCTGCAGAGGTGGAGGTGGCCGATGAAACCAAAT
GCTGCTGTTTCTTCAAGAGGAGAAAGAGAAAATCGCTGCAGCGACACAAGTGACCCTGGGCGCGTGCAGCCCCCT
GAATCTTCTCCGTGCAGCCCCTTGGGGCGCGACCTTGTGCGAGGCCCTCGGGGCCCACCCACAGCGGCCCAGGGC
CAGACCCTGGCTGGAAGCCAGAACGCAGACTGCAGGGGCCGCGCCTGGCTCAGGCGGCCCCACCCCCGGGACGTG
GGGTCACTTCCTTCATGTAAGACTTTGGCCGAAATTTCTACACCTGTGTCTAGTCCTCCCCTCCAAGAGCATTAA
CTATTTAAAACAAGGAAAAGAGGAAAAAAAAAACAGAGGCCCGCCCTACCCCACTCCTGCCCCTCCGTTTCTTTG
CTGAAGTGAGTAGTGTGATCCTGGAGGCCCCCCGGCCTGGCCCCGCCCCGCCAGCCGCCCCCGTTAGCGTCATAA
AGTCCAGCTTGTCTCCCTCGATCCAAAGGCCGTTTTCTCGAGGGGAGGGCAGGCCCGGCCTGGAGGGGTGCTGTG
GAGCTGTCTTGCCCAGGCCCTCCTGGGAGGGGGACAGGCATTGTTGCCAGGGGTGAGGCCGTGCCCCAGGCCTCC
CCGAAACCAAAGGGGAAGGCAGGGGTGGGGCCGTGGCTGAAGCCGGCTCCCCAACCAAAATGCTGCACCAAAGCT
CGGGCGCCGCGGGCACGGCTGCTGCAGTCTCTTCCCAGCCTGGCCCTGGCAAGGGGCGGGTGGGCGCTGCCAGGC
GGGTGCTTCTCGACGCACTTGCTCCCGGAGGCTGCGCCCCGGCGCCTGGAACCCGAGGTGGGAGGACCGGTTGGT
GTCACCCTGCTCGGCCCTCAGCCCTGCCGCGTGGGGCGCGTGGGCACGGAGCTTCCTGCCTCTCTGCTCCGACAC
CCGGCAAGCAGCCGGAGACAAAACGCCTTAAAGCCCCCGGCCCAGCCCTGCAGGTATATTGCAGGGGCCTGGGGG
CGGCCCTGGACTGGCGGGCGGTTCCCCAGTGGGGTGCCCTGGAGGCTGCCGGGCAGAGTGGAGCAGCTTGGGGCC
GTGCCCAGGGCGGTGGCTGTGAGTCTAGTTTTTGCTTTACCAAGTGTACAGAAATGGCATTTACGTTTCTCTGAT
GCTCCCTTGAAGCCATAGAATTTAGGGGCTTTTTTAAAAAAATAAAAGAAAAATGAAACC

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FIGURE 279

ATGGCGGCGGGTGGGAGCGGCGGGCGTGCGTCGTGCCCGCCGGGGGTCGGGGTCGGCCCGGGCACGGGGGGCAGT
CCCGGGCCCAGCGCCAACGCCGCCGCCACCCCGGCCCCCGGCAACGCGGCCGCCGCCGCCGCCGCCGCCGCC
GCCGCCGCCGCCCCTGGGCCGACGCCGCCCGCCCCGCCGGGCCCCGGGACAGACGCGCAGGCCGCGGGCGCGGAG
CGGGCGGAGGAGGCGGCGGGCCCGGGGGCGGCGGCGCTGCAGCGCGAGGCCGCGTACAACTGGCAGGCCAGCAAG
CCCACCGTGCAGGAGCGCTTCGCCTTCCTCTTCAACAACGAGGTGCTGTGCGACGTGCACTTCCTGGTGGGCAAG
GGGCTCAGCTCGCAGCGCATCCCCGCGCACAGGTTCGTGCTGGCCGTGGGCAGCGCCGTCTTTGATGCCATGTTC
AACGGGGGAATGGCCACAACATCCACGGAGATTGAGCTGCCCGACGTGGAACCCGCTGCCTTCCTCGCACTGCTC
AAGTTTCTCTACTCGGACGAGGTGCAGATTGGCCCGGAGACGGTGATGACCACGCTATACACCGCCAAGAAGTAC
GCGGTGCCAGCGCTCGAGGCCCATTGCGTGGAGTTCCTGAAGAAGAACCTGCGAGCCGACAACGCCTTCATGCTG
CTCACGCAGGCGCGACTCTTCGATGAACCGCAGCTGGCCAGCCTGTGCCTGGAGAACATCGACAAAAACACTGCA
GACGCCATCACCGCGGAGGGCTTCACCGACATTGACCTGGACACGCTGGTGGCTGTCCTGGAGCGCGACACACTG
GGCATCCGTGAGGTGCGGCTGTTCAATGCCGTTGTCCGCTGGTCCGAGGCCGAGTGTCAGCGGCAGCAGCTGCAG
GTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGCCCTGGGCCTCATTCGCTTCCCGCTCATGACCATCGAG
GAGTTCGCTGCAGGTCCCGCACAGTCGGGCATCCTGGTGGACCGCGAGGTGGTCAGCCTCTTCCTGCACTTCACC
GTCAACCCCAAGCCACGAGTGGAGTTCATTGACCGGCCCCGCTGCTGCCTGCGTGGGAAGGAGTGCAGCATCAAC
CGCTTCCAGCAGGTGGAGAGTCGCTGGGGCTACAGCGGGACCAGTGACCGCATCAGGTTCTCAGTCAACAAGCGC
ATCTTCGTGGTGGGATTTGGGCTGTATGGATCCATCCACGGGCCCACCGACTACCAAGTGAACATCCAGATTATT
CACACCGATAGCAACACCGTCTTGGGCCAGAACGACACGGGCTTCAGCTGCGACGGCTCAGCCAGCACCTTCCGC
GTCATGTTCAAGGAGCCGGTGGAGGTGCTGCCCAACGTCAACTACACGGCCTGTGCCACGCTCAAGGGCCCAGAC
TCCCACTACGGCACCAAAGGCCTGCGCAAGGTGACACACGAGTCGCCCACCACGGGCGCCAAGACCTGCTTCACC
TTTTGCTACGCGGCCGGGAACAACAATGGCACATCCGTGGAGGACGGCCAGATCCCCGAGGTCATCTTCTACACC
TAGGCTGCCCGACACCGACACCGCCCTCCCTCCGTGGGGATAGCCGCAGCCCCAGGCCATCATCTGCTGCTGGGG
CCCCCCCACCACGCGGTGCCAGGCCCAGTGTCCCCCAGGCCGTCTGTCCACTCCATGCCACCTTTCTCAGCATCA
GGACGGGGTTGCCCTGTGTTCACCACGAGTGTGGCTGCTGGATCAGGGCAGCCGGGGAGGTGGCCAGGCCAGTGG
CCAGGCCCTGTGGAGACAATCCCTCAGGACTAGGGACAGGGCTGTGCCGGCCTGGGCCAGGGCCCACGGACCCGC
AGCTCAGGGCGCCTGCCCACGTCGTCTGCCGGCGGTGCGCCGCGGGCGTCCCTCGCGTCTCTTCACTGCACATTG
CAATGCATTTGCGATTCCCATTTCTCTGCTAGGAGCCAGCCTGGGTGGCGCTGCTCCCAGAGCCGTGGGTCCCAG
ACCTTGCGTTCCTTTTGTTCCTGTCCGTTTATCAGGACACGGGCCCCACCTGTCACGTGCCCGAGGCCACCCAAG
CCCAGCCTGCGGGGCGTTCCCACTGCCTGGATGCCGGCTTGAGTTCTGCGCACGCAGGATTCAGTGTGGGGACGG
CCCCTGCCGGATAGGCCTAGCCCTGGCCCAGGTGGTGAGCGGTTTGCAGTGTCCGTTCTCATCCACCTGATGGGC
CCAGATAAAGGCCCCCGCTGTCCAGCCTCCCTGGACGGCCCTCGCGGTCCCTGCAGCCCAAGATGGGACTCAGAC
CCTGTGCCCCAGAGCTCCCCTGCCGCAGAATGGGGCCCCAGCCGGCCCCGACCGGGTCCAGGAGCACTGCTCGCC
TGTACATACTGTTGCCCTAGCCCACCTGGTGCCGTGGGAGCCACCCCCAGGTGCTGGGGGCACAGCCCCTCCCCA
CTCCGGCCACGCCCCCACCCACCCCGCGTGTTTCTGCCCTGTGACTCCTGGAACCTGCGTCCTCCCCAAAGCCAT
GGGAGGGGTGTCCTCCTCAGACCATGCCCCCAGATGATTTTTTTAAATAAAGAAACAAATGCACCTGC

FIGURE 280

GCTGGCGGGGCCCGGACAGAAGATGGTGCAGAAGAAACCAGCCGAACTTCAGGGTTTCCACCGTTCGTTCAAGGG
GCAGAACCCCTTCGAGCTGGCCTTCTCCCTAGACCAGCCCGACCACGGAGACTCTGACTTTGGCCTGCAGTGCTC
AGCCCGCCCTGACATGCCCGCCAGCCAGCCCATTGACATCCCGGACGCCAAGAAGAGGGGCAAGAAGAAGAAGCG
CGGCCGGGCCACCGACAGCTTCTCGGGCAGGTTTGAAGACGTCTACCAGCTGCAGGAAGATGTGCTGGGGGAGGG
CGCTCATGCCCGAGTGCAGACCTGCATCAACCTGATCACCAGCCAGGAGTACGCCGTCAAGATCATTGAGAAGCA
GCCAGGCCACATTCGGAGCAGGGTTTTCAGGGAGGTGGAGATGCTGTACCAGTGCCAGGGACACAGGAACGTCCT
AGAGCTGATTGAGTTCTTCGAGGAGGAGGACCGCTTCTACCTGGTGTTTGAGAAGATGCGGGGAGGCTCCATCCT
GAGCCACATCCACAAGCGCCGGCACTTCAACGAGCTGGAGGCCAGCGTGGTGGTGCAGGACGTGGCCAGCGCCTT
GGACTTTCTGCATAACAAAGGCATCGCCCACAGGGACCTAAAGCCGGAAAACATCCTCTGTGAGCACCCCAACCA
GGTCTCCCCCGTGAAGATCTGTGACTTCGACCTGGGCAGCGGCATCAAACTCAACGGGGACTGCTCCCCTATCTC
CACCCCGGAGCTGCTCACTCCGTGCGGCTCGGCGGAGTACATGGCCCCGGAGGTAGTGGAGGCCTTCAGCGAGGA
GGCTAGCATCTACGACAAGCGCTGCGACCTGTGGAGCCTGGGCGTCATCTTGTATATCCTACTCAGCGGCTACCC
GCCCTTCGTGGGCCGCTGTGGCAGCGACTGCGGCTGGGACCGCGGCGAGGCCTGCCCTGCCTGCCAGAACATGCT
GTTTGAGAGCATCCAGGAGGGCAAGTACGAGTTCCCCGACAAGGACTGGGCCCACATCTCCTGCGCTGCCAAAGA
CCTCATCTCCAAGCTGCTGGTCCGTGACGCCAAGCAGAGGCTGAGTGCCGCCCAAGTCCTGCAGCACCCCTGGGT
TCAGGGGTGCGCCCCGGAGAACACCTTGCCCACTCCCATGGTCCTGCAGAGGTGGGACAGTCACTTCCTCCTCCC
TCCCCACCCCTGTCGCATCCACGTGCGACCTGGAGGACTGGTCAGAACCGTTACTGTGAATGAGTGAAGATCCTG
GAGGACCCTGGGCCCCAGGCCAGCTCCCATCGCTGGGGGACGGTGAACGGCCATGTGTTAATGTTACGATGTTTT
TAAAAGACAAAAAAAAAAAAAAAAACCTCAAAAGTTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCC
AATGTACCAGGTGAACTGACGGAGCTCAGAAGTTTTCCTTTACACCAACTGTCAATGCCGGAATTTTGTATTCTG
TTTTGTAAAGATTTAATAAAAGTCAAAAAACTTGC

FIGURE 281

GGAATTCTGAGAGCTGATTCCTGCCTTGTCTTCTCCACTGTTCCTGGAGGAATCCGAGAAGAGCAGAGCGGAGGG
AGCCCCAGACACGGTCCGCGGGAGAGCTGTGGGGCTTGGTGAGTGTTTCGTGGCCTCTCGGGTTGGTCAGCACCC
CCAGCCAGCTGGCCCAGGACCCCTCTACAGAAGTCCAGGAGAGCAGGCGTCACCAAGATGTCCAACCCCTTCCTG
AAGCAAGTCTTCAACAAGGACAAGACATTCCGCCCCAAGCGCAAGTTTGAGCCAGGCACCCAGCGCTTCGAGCTG
CACAAGAAGGCGCAGGCGTCGCTGAACGCCGGGCTGGACCTGCGGCTGGCCGTGCAGTTGCCCCCGGGCGAGGAC
CTGAACGACTGGGTGGCTGTTCACGTGGTGGACTTCTTTAACCGCGTCAACCTCATCTACGGCACCATCAGCGAC
GGCTGCACGGAGCAGTCCTGCCCCGTCATGTCGGGGGGCCCCAAGTATGAGTACCGCTGGCAGGATGAGCATAAG
TTCCGGAAGCCCACGGCACTCTCCGCGCCCAGGTACATGGACCTGCTGATGGACTGGATCGAGGCGCAGATCAAC
AACGAGGACCTCTTCCCCACCAACGTTGGCACTCCGTTTCCCAAGAACTTCCTGCAGACGGTGCGGAAGATCCTG
TCGCGGCTGTTCCGCGTGTTCGTGCACGTCTACATCCACCACTTTGACCGCATCGCGCAGATGGGCTCCGAGGCC
CACGTGAACACCTGCTACAAGCACTTCTACTATTTCGTCAAGGAGTTCGGCCTCATCGACACCAAGGAGCTGGAG
CCACTGAAAGAAATGACCGCCCGGATGTGCCACTGAGAGCCCCGCGGGTCTCCCGGTGCCCGAACCGCCGCTGGG
GCCTCGGAGACTTGGAGGAGGACGCTCTGGAACCATCATCCCGCTTCTCTCCGGCCTGAGCATCTCAGGGAGACC
AGGGGCCGAGCCGCTGAGCAGGTGTTGGTCCTCAGGAGCTCCAACCCCGGACGGCAGATGCCTTCCTCAGTCTCG
AGCCTCAGTCTCCCGTCTGGGACTAAAACGTGAACTCTGTAATTCTATGTGTTACTAGCAACCGGAAAAGCCCAC
TGTGTTTTTAAACCACTTCCACTTTCCAGGAGGCTGGATGGCTTCCAGGGTCACTCCTTGCCCTGGGTGGCTCCC
AGGCTCCTGGAACTTCTGCCTCCACCTCGCTGGGGAGCCCCCAGGGCTGCTGTGGCCACAGCCCTGCCTGGGCCT
GTCTCTCAAGGGCACCCAGCTTGCTCGGCCTCCTACATGTCTCCCGTTGGGGAGGCAAGAGGCTGAGGGGCTTCC
GAGCCCCTGAGAGCGGACATCTCCTCCCGCAGGCCTTTACTCCGCACTCCCCACTGGCAGCCGCTGGTGTCTCTT
CACACAGAGGCACAACCTGGACCCAGGCAGCCTCTTTCCTCCCTCCCCAATCTCTTCCATTTTTCTACAGATTTT
TTTTTTTTTGGTCATACTAGAGACAGGGGTCTCGCTGAACTCCTGGCCTCCAGTGATCCTCCATCCTCGGCCTCC
CAAAGTGCTGGAATCACAGGGGTGAGCCACCGCACCCAGCCCTCTCTCTTCCTCAATGCACTCTGCTTCTTCCGT
TCTTCCGAAACATTCAGCTGACTGTATCCAGGGCTTCCTGGACTCCTGGGACCCCACGTCCTGCACCCCGGCTTC
TGACTCATTTCCTAAGGGCCCCTTTGTGTATCATAAAGGGTTTGATTTTTATAGTCACATTTACAACCATCTTGA
GATTTTTATTTTTTTTGAACGGAGTCTCCCACTGTCGCCCAGACTGGAGTCCAGTGGCACAATCTCGGCTCACTG
CATCCTCCACCTCCTGGGTTCAAGTGATTCTCCTGCTTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCGCCA
CCACGCCCAGGAAATTATTGTAGTTTTAGTAGAGACAAGATTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCT
GACTTCAGGTGATCCGCCTACCTTGGCCTCCAAAAGTGCTGGGATTACAGGCATGAGCTACTGCACCCGGCCTAA
CCAGGCTGGAGTGCAGTGGTGGGATCTCGGCTCACTGCAAGCTCCGCCTCCCAGATTCACGCCATTCTCCTGCCT
CAGCCTCCCCAGCAGCTGGGACTACAGGCACCCACCGTCACACCCGGCTAATTTTTTTGTATTTTAGTAGAGACA
GGGTTTCACCGTGTTAGCCAGGATGGTCTTGATCTCCTGACCTTGTGATCCACCAGCCTCAGCCTCCCAAAGTGC
TGGGATTACAGGCGTGAGCCACTGTGCCCGGCCAAGAATTTTTTTATCGATAACATAGTGAGCTCTCTGCCTCTT
CGGAACGATGTCCACTTTGCTTATGATCAACCCAAGCAGGACTCTTCTCTCCCTGGACGCCTCTCCCCTGGTCTG
GAATCTTCCAGTTCTGCCAGAATTGGCCTTTCCCAGATGCTGCAAACTTCCAGTTGAACCCCTTTTTCTGTGTGG
CCCCTGGGGCTGCGAGACCAAAATCCATGAGTTCTGTGTACCCTAGACCTTTGGAAGGTGAGAGCAGGGCCCTGA
GAAAAGGCAGCCACCTCCTCTCCCTGGCTGAACCCCTGCCACCCTACTCCTCACCAGAATTGTCAGTGGCCTTTC
ACCACAGTGGTCCTTCCTGCCTGAGCCCTGCACTGTCCCAGACCACACAGAAGTCTGGTCACCTCTGGGCGCCTG
GGATGGTCACCGAAGAGAAGCACGCTGTCCCCGTCTCTCCTGGCTTCTGCCAGAAAATCGAACAAGTGCAATTAA
CACACTGTTACTGCCGAAGCCTGAAACTCCCAGGACTTGTCCTTGATCCTTCCAGAAACCACCAGGTCCGGCACT
TGGAGCCCCCCGGAGAGGGACCTCCCAGCCGAGCCCTCAAAGAACTCCATGAAATCAGGAACTGCTTGATGAAAT
GTATCTCCTTGTACCTGGAAGATGAAGCCCAAACACCCACACCTCTGTCTCCCCCAGGGCTCGGGATGTCTCCAG
CAGCCCGGCCACGCAGCTTCCCAGGTGGGCTCGGGGAGGTGGGAGCAGGGACCATCTCTGTCCCCTCCACCCTCA
CTCCATCCACCTCGGAGACCACCCTCCCCCAGCCAGATACGGAATAAAACTACAGACGCAGACGTCGG

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FIGURE 282

CTGAAGGGTGTGGCGCGAGCAGCGTCGTTGGTTGGCCGGCGGCGGGCCGGGACGGGCATGGCCCTGCTGCTGTGC
CTGGTGTGCCTGACGGCGGCGCTGGCCCACGGCTGTCTGCACTGCCACAGCAACTTCTCCAAGAAGTTCTCCTTC
TACCGCCACCATGTGAACTTCAAGTCCTGGTGGGTGGGCGACATCCCCGTGTCAGGGGCGCTGCTCACCGACTGG
AGCGACGACACGATGAAGGAGCTGCACCTGGCCATCCCCGCCAAGATCACCCGGGAGAAGCTGGACCAAGTGGCG
ACAGCAGTGTACCAGATGATGGATCAGCTGTACCAGGGGAAGATGTACTTCCCCGGGTATTTCCCCAACGAGCTG
CGAAACATCTTCCGGGAGCAGGTGCACCTCATCCAGAACGCCATCATCGAAAGCCGCATCGACTGTCAGCACCGC
TGTGGCATCTTCCAGTACGAGACCATCTCCTGCAACAACTGCACAGACTCGCACGTCGCCTGCTTTGGCTATAAC
TGCGAGTCCTCGGCGCAGTGGAAGTCAGCTGTCCAGGGCCTCCTGAACTACATAAATAACTGGCACAAACAGGAC
ACGAGCATGAGCCTGGTATCGCCAGCCTTAAGGTGTCTGGAGCCCCCACACTTGGCCAACCTGACCTTGGAAGAT
GCTGCTGAGTGTCTCAAGCAGCACTGACAGCAGCTGGGCCTGCCCCAGGGCAACGTGGGGGCGGAGACTCAGCTG
GACAGCCCCTGCCTGTCACTCTGGAGCTGGGCTGCTGCTGCCTCAGGACCCCCTCTCCGACCCCGGACAGAGCTG
AGCTGGCCAGGGCCAGGAGGGCGGGAGGGAGGGAATGGGGGTGGGCTGTGCGCAGCATCAGCGCCTGGGCAGGTC
CGCAGAGCTGCGGGATGTGATTAAAGTCCCTGATGTTTCTC

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FIGURE 283A

GGGGCCCGGAGCGGGATCGCGGCACCTGCCGAGCGGGTCGCCGCCTCTGCCGCGGTCCTTGGACCCCGCCGCCGC
CCTGGCCTGGGAGCTTGCCCCGCCGCAGCGGCCGGCAGCGCGGCGCTCCGCGGGCGGCAGGCACGGGCCCCGGGC
CCCCTCACGGCGCCCAGCCGCGGGCCTCCCGAGGCAAAAGCCCGTGGGCCGCCGCG**ATG**GCCCTCAAGATGGTGA
AGGGCAGCATCGACCGCATGTTCGACAAGAATCTGCAGGACTTGGTCCGCGGCATCCGTAACCACAAGGAGGACG
AGGCAAAATACATATCTCAGTGCATTGATGAGATCAAGCAGGAGCTGAAGCAGGACAACATAGCGGTGAAGGCGA
ACGCGGTCTGCAAGCTGACGTATTTACAGATGTTGGGATACGACATCAGCTGGGCCGCCTTCAACATCATAGAAG
TGATGAGTGCCTCCAAGTTCACCTTCAAGCGAATTGGCTACCTCGCTGCTTCCCAGAGCTTTCACGAAGGCACCG
ACGTCATCATGCTGACCACCAATCAGATCCGTAAGGACTTGAGCAGCCCCAGCCAGTACGACACAGGTGTTGCAC
TGACGGGTCTGTCCTGCTTCGTCACCCCAGACCTTGCCAGAGACCTGGCAAATGACATCATGACACTGATGTCAC
ACACCAAGCCCTACATCAGGAAGAAGGCTGTGCTGATCGAGCCCCTCACCAATCTCATCCACAGCACGTCTGCCA
TGTCTCTCCTCTATGAATGTGTGAACACCGTGATTGCAGTGCTCATCTCGCTGTCCTCCGGCATGCCCAACCACA
GCGCCAGCATCCAGCTTTGTGTTCAGAAATTAAGGATATTGATCGAGGACTCCGATCAGAACTTGAAGTACCTGG
GGCTGCTGGCAATGTCCAAGATCCTGAAGACCCACCCCAAGTCCGTGCAGTCCCACAAGGACCTCATCCTGCAGT
GCCTGGACGACAAGGACGAGTCCATCCGGCTGCGGGCCCTGGACCTGCTCTATGGGATGGTGTCCAAGAAGAACC
TGATGGAGATCGTGAAGAAGCTGATGACCCACGTAGACAAGGCAGAGGGTACCACCTACCGTGACGAGCTGCTCA
CCAAGATCATTGACATCTGCAGCCAGTCCAACTACCAGTACATCACCAACTTCGAGTGGTACATCAGCATCCTGG
TGGAGCTGACCCGGCTGGAGGGCACACGGCACGGCCACCTCATCGCCGCCCAAATGCTGGACGTGGCCATCCGCG
TGAAGGCCATCCGCAAGTTCGCCGTGTCCCAGATGTCTGCGCTGCTTGACAGTGCACACCTGCTGGCCAGCAGCA
CCCAGCGGAACGGGATCTGTGAGGTGCTGTACGCTGCCGCCTGGATCTGCGGGGAGTTCTCAGAGCATCTGCAGG
AACCACACCACACTTTGGAGGCCATGCTGCGGCCCAGAGTCACCACGCTGCCAGGCCACATCCAGGCCGTGTATG
TGCAGAACGTGGTCAAGCTCTACGCCTCCATCCTGCAGCAGAAGGAGCAGGCCGGGGAGGCAGAGGGCGCTCAGG
CCGTCACCCAGCTCATGGTGGACCGGCTGCCCCAGTTTGTGCAGAGCGCAGACCTGGAGGTGCAGGAGCGGGCGT
CCTGCATCCTGCAGCTGGTCAAGCACATCCAGAAGCTTCAGGCCAAGGACGTGCCTGTGGCAGAGGAGGTCAGCG
CTCTCTTTGCTGGGGAGCTGAACCCAGTGGCCCCCAAGGCCCAGAAGAAGGTTCCAGTCCCCGAAGGCCTGGACC
TGGACGCCTGGATCAATGAGCCACTCTCGGACAGCGAGTCAGAGGACGAGAGGCCCAGGGCCGTCTTCCACGAGG
AGGAGCAGCGGCGTCCCAAGCACCGGCCGTCGGAGGCGGACGAGGAAGAGCTGGCTCGGCGCCGAGAGGCCCGGA
AGCAGGAGCAGGCCAACAACCCCTTCTACATCAAGAGCTCGCCATCGCCACAGAAGCGGTACCAGGACACCCCGG
GCGTGGAGCACATTCCCGTGGTGCAGATTGACCTCTCCGTCCCCTTGAAGGTTCCAGGGCTGCCTATGTCAGATC
AGTATGTGAAGCTGGAGGAGGAGCGGCGGCACCGGCAGAAGCTGGAGAAGGACAAGAGGAGGAAAAAGAGGAAGG
AGAAGGAGAAGAAGGGCAAGCGCCGCCACAGCTCGCTGCCCACGGAGAGCGACGAGGACATCGCCCCTGCCCAGC
AGGTGGACATCGTCACAGAGGAGATGCCTGAGAATGCTCTGCCCAGCGACGAGGATGACAAAGACCCCAACGACC
CCTACAGGGCTCTGGATATTGACCTGGATAAGCCCTTAGCCGACAGCGAGAAACTGCCTATTCAGAAACACAGAA
ACACCGAGACCTCAAAATCCCCTGAGAAGGACGTTCCCATGGTAGAAAAGAAGAGCAAGAAACCCAAGAAGAAAG
AGAAAAAACACAAAGAGAAAGAGAGAGACAAGGAGAAGAAGAAGGAGAAGGAGAAGAAGGCTGAGGACCTGGACT
TCTGGCTGTCTACCACCCCACCGCCTGCCCCCGCCCCCGCCCCCGCCCCCGTTCCATCCACGGACGAGTGTGAGG
ACGCCAAGACGGAGGCGCAGGGCGAGGAGGACGATGCCGAGGGGCAAGACCAGGACAAGAAATCTCCCAAGCCTA
AGAAGAAGAAGCACAGGAAGGAGAAGGAGGAGCGGACCAAAGGCAAGAAGAAGTCCAAGAAGCAGCCTCCAGGCA
GCGAGGAGGCAGCGGGGGAGCCGGTGCAGAATGGCGCGCCAGAGGAGGAGCAGCTCCCGCCTGAGTCCAGCTACT
CCCTCCTCGCTGAAAATTCCTATGTTAAAATGACCTGTGACATCCGGGGCAGTCTGCAGGAGGACAGCCAGGTCA
CTGTGGCCATCGTGCTGGAGAACAGGAGCAGCAGCATCCTCAAGGGCATGGAGCTCAGCGTGCTGGACTCACTCA
ATGCCAGGATGGCCCGGCCGCAGGGCTCCTCCGTCCACGATGGCGTCCCCGTGCCTTTCCAGCTGCCCCCAGGCG
TCTCCAACGAAGCCCAGTATGTGTTCACCATCCAGAGCATCGTCATGGCGCAGAAGCTCAAGGGGACCCTGTCCT
TCATTGCCAAGAATGACGAGGGTGCGACCCACGAGAAGCTGGACTTCAGGCTGCACTTCAGCTGCAGCTCCTACT
TGATCACCACTCCCTGCTACAGTGACGCCTTTGCTAAGTTGCTGGAGTCTGGGGACTTGAGCATGAGCTCAATCA
AAGTCGATGGCATTCGGATGTCCTTCCAGAATCTTCTGGCGAAGATCTGTTTTCACCACCATTTTTCCGTTGTGG
AGCGAGTGGACTCCTGCGCCTCCATGTACAGCCGCTCCATCCAGGGCCACCATGTCTGCCTCCTGGTGAAAAAGG
GTGAGAACTCTGTCTCAGTCGACGGGAAGTGCAGTGACTCCACGCTACTGAGCAACTTGTTAGAAGAGATGAAGG
CGACGCTGGCCAAGTGT**TGA**GAGCTGCCTGCGAGCCCCGCACCACCCCGCGGAGCACGTACCCAGGGACCGCAGC

FIGURE 283B

CCTGACGTGTCTCGCCTCTCCTCAGTCGTGTGTACTGTACCCAAGCCTGAGTGTTAATTTAACTCTATGTTGTCC
GCCGTGTAGACATCCGAGGTCATTTGTTGCGTTGAATTATCTGACCATCCTTTTTTACTGTGACTCTTCCCATTC
TCTTTGGCAAGAAGTCCCCTTCTCGCCCCCAAACCAGCAAGGGACTCCCCCACCTGGGTCTGTGCCCTGCCCCGC
GCTGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCTGTCCTGGGCCAGGGCCTGATGGGCACCACGTGAGG
GGCACTTGGTGGACAGGGCGGGGCTGACGTGGCCTCCTCTGGGGTCGCCTGCTTTTGACCCAAAGGTCCTGACGG
TTGCGTCCGGGGGAGGGGAAGGAAGGGCCGCTGTCGCCAAGGTTTTCTCTCCCAGAACCCACAGTGGGAAAGCGG
TCTTGCCAGGCGTTGTCCATTGTCAGTGTGCTCGTGGGCTGGTGACTGGGTCTTGGGATCCCAGGCCACGCGCCA
GCCAGGCTGTGGGCAGGGCGGGGCCAGGGACGCCAAAGAGAGGTTGCAGTCAGAACCGTGGACGGGGTGGGTTGA
GGCCTCTCTGCCACCCGTCTTCCTGGTCAGCAGAAGTGCATCTCGGCTTGGGTTTGGGGTGGTCCGCATCCCCTG
CTTGCCACTATGCGCACCAAGGTTTCCCCACATCCTTCCCAGCACCCTTAGGAAGGCCCAGGCAGGGCCTGGAAG
CAGCGGACCTGGGCTGTTCTGTGTTGAAGGAGTGTGCCCAGTGCCCTTGGGCAGGACCTGTGAGAGCCACCTCAC
AGGCAGAGCCCCCACCAGGCAGGGCAAGGAGACTCCGCTCACTCCCCACGGCCAGCGTGGGCACAGGACTGACCC
TTCTTCAGAGATAATGACATTTTATCTTCTCCTTTTGATGAAAACTGTCACTTTAGCATGTAATCCATTACAGAA
TCCCATGCAGTGATTCCAGGATTTGAAATTGTATGATGTGTTACATAAGAATTTATTTGCTATCGACATTCCCGT
ATAAAGAGAGAGACATATCACGCTGCTGTCATGATTTTGTGTCAAGATGATCCAATAAAGTTGTAAAACAGG

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FIGURE 284A

GCGGCCGTCCACTGGACTCCTGCGCCATATCCTGCAGCAGGTCTACAACCACTCGGTGACCGACCCCGAGAAGCT
CAACAACTACGAGCCCTTCTCCCCCGAGGTGTACGGGGAGACCTCCTTCGACCTGGTGGCCCAGATGATTGATGA
GATCAAGATGACCGACGACGACCTGTTTGTGGACTTGGGGAGCGGTGTGGGCCAGGTCGTGCTCCAGGTTGCTGC
TGCCACCAACTGCAAACATCACTATGGCGTCGAGAAAGCAGACATCCCGGCCAAGTATGCGGAGACCATGGACCG
CGAGTTCAGGAAGTGGATGAAATGGTATGGAAAAAAGCATGCAGAATACACATTGGAGAGAGGCGATTTCCTCTC
AGAAGAGTGGAGGGAGCGAATCGCCAACACGAGTGTTATATTTGTGAATAATTTTGCCTTTGGTCCTGAGGTGGA
TCACCAGCTGAAGGAGCGGTTTGCAAACATGAAGGAAGGTGGCAGAATCGTGTCCTCGAAACCCTTTGCACCTCT
GAACTTCAGAATAAACAGTAGAAACTTGAGTGACATCGGCACCATCATGCGCGTGGTGGAGCTCTCGCCCCTGAA
GGGCTCGGTGTCGTGGACGGGGAAGCCAGTCTCCTACTACCTGCACACTATCGACCGCACCATACTTGAAAACTA
TTTTTCTAGTCTGAAAAACCCAAAACTCAGGGAGGAACAGGAGGCAGCCCGGCGCCGCCAGCAGCGCGAGAGCAA
GAGCAACGCGGCCACGCCCACTAAGGGCCCAGAGGGCAAGGTGGCCGGCCCCGCCGACGCCCCCATGGACTCTGG
TGCTGAGGAAGAGAAGGCGGGAGCAGCCACCGTGAAGAAGCCGTCTCCCTCCAAAGCCCGCAAGAAGAAGCTAAA
CAAGAAGGGGAGGAAGATGGCTGGCCGCAAGCGCGGGCGCCCCAAGAAGATGAACACTGCGAACCCCGAGCGGAA
GCCCAAGAAGAACCAAACTGCACTGGATGCCCTGCACGCTCAGACCGTGTCTCAGACGGCGGCCTCCTCACCCCA
GGATGCCTACAGATCCCCTCACAGCCCGTTCTACCAGCTACCTCCGAGCGTGCAGCGGCACTCCCCCAACCCGCT
GCTGGTGGCGCCCACCCCGCCCGCGCTGCAGAAGCTTCTAGAGTCCTTCAAGATCCAGTACCTGCAGTTCCTGGC
ATACACAAAGACCCCCCAGTACAAGGCCAGCCTGCAGGAGCTGCTGGGCCAGGAGAAGGAGAAGAACGCCCAGCT
CCTGGGTGCGGCTCAGCAGCTCCTCAGCCACTGCCAGGCCCAGAAGGAGGAGATCAGGAGGCTGTTTCAGCAAAA
ATTGGATGAGCTGGGTGTGAAGGCGCTGACCTACAACGACCTGATTCAAGCGCAGAAGGAGATCTCCGCCCATAA
CCAGCAGCTGCGGGAGCAGTCGGAGCAGCTGGAGCAGGACAACCGCGCGCTCCGCGGCCAGAGCTTGCAGCTGCT
CAAGGCTCGCTGCGAGGAGCTGCAGCTGGACTGGGCCACGCTGTCGCTGGAGAAGCTGTTGAAGGAGAAGCAGGC
CCTGAAGAGCCAGATCTCGGAGAAGCAGAGGCACTGCCTGGAGCTGCAGATCAGCATTGTGGAGCTAGAGAAGAG
CCAGCGGCAGCAGGAGCTCCTGCAGCTCAAGTCCTGTGTGCCGCCTGACGACGCCCTGTCCCTGCACCTGCGTGG
GAAGGGCGCCCTGGGCCGCGAGCTGGAGCCTGACGCCAGCCGGCTGCACCTGGAGCTGGACTGCACCAAGTTCTC
GCTGCCTCACTTGAGCAGCATGAGCCCGGAGCTCTCCATGAACGGCCAGGCTGCTGGCTATGAGCTCTGCGGTGT
GCTGAGCCGGCCTTCGTCGAAGCAGAACACGCCCCAGTACCTGGCCTCACCCCTGGACCAGGAGGTGGTGCCCTG
TACCCCTAGCCACGTCGGCCGGCCGCGCCTGGAGAAGCTGTCTGGCCTAGCCGCACCCGACTACACTAGGCTGTC
CCCGGCCAAGATTGTGCTGAGGCGGCACCTGAGCCAGGACCACACGGTGCCCGGCAGGCCGGCTGCCAGTGAGCT
GCATTCGAGAGCTGAGCACACCAAGGAGAACGGCCTTCCCTACCAGAGCCCCAGCGTGCCTGGCAGCATGAAGCT
GAGCCCTCAGGACCCGCGGCCCCTGTCCCCTGGGGCCTTGCAGCTTGCTGGAGAGAAGAGCAGTGAGAAGGGCCT
GAGAGAGCGCGCCTACGGCAGCAGCGGGGAGCTCATCACCAGCCTGCCCATCAGCATCCCGCTCAGCACCGTGCA
GCCCAACAAGCTCCCGGTCAGCATTCCCCTGGCCAGCGTGGTGCTGCCCAGCCGCGCCGAGAGGGCGAGGAGCAC
CCCCAGTCCCGTGCTGCAGCCCCGTGACCCCTCGTCCACACTTGAAAAGCAGATTGGTGCTAATGCCCACGGTGC
TGGGAGCAGAAGCCTTGCCCTGGCCCCCGCAGGCTTCTCCTACGCTGGCTCGGTGGCCATCAGCGGGGCCTTGGC
GGGCAGCCCGGCCTCTCTCACACCTGGAGCCGAGCCGGCCACCTTGGATGAGTCCTCCAGCTCTGGGAGCCTTTT
TGCCACCGTGGGGTCCCGCAGCTCCACGCCACAGCACCCCCTGCTGCTGGCACAGCCCCGGAACTCGCTTCCTGC
CTCTCCCGCCCACCAGCTCTCCTCCAGTCCCCGGCTTGGTGGGGCCGCCCAGGGCCCGTTGCCCGAGGCCAGCAA
GGGAGACCTGCCCTCCGATTCCGGCTTCTCAGATCCTGAGAGTGAAGCCAAGAGGAGGATTGTGTTCACCATCAC
CACTGGTGCGGGCAGTGCCAAGCAGTCGCCCTCCAGCAAGCACAGCCCCCTGACCGCCAGCGCCCGTGGGGACTG
TGTGCCGAGCCACGGGCAGGACAGTCGCAGGCGCGGCCGGCGGAAGCGAGCATCTGCGGGGACGCCCAGCTTGAG
CGCAGGCGTGTCCCCCAAGCGCCGAGCCCTGCCGTCCGTCGCTGGCCTTTTCACACAGCCTTCGGGGTCTCCCCT
CAACCTCAACTCCATGGTCAGTAACATCAACCAGCCCCTGGAGATTACAGCCATCTCGTCCCCGGAGACCTCCCT
GAAGAGCTCCCCTGTGCCCTACCAGGACCACGACCAGCCCCCCGTGCTCAAGAAGGAGCGGCCTCTGAGCCAGAC
CAATGGGGCACACTACTCCCCACTCACCTCAGACGAGGAGCCAGGCTCTGAGGACGAGCCCAGCAGTGCTCGAAT
TGAGAGAAAAATTGCAACAATCTCCTTAGAAAGCAAATCTCCCCCGAAAACCTTGGAAAATGGTGGTGGCTTGGC
GGGAAGGAAGCCCGCGCCCGCCGGCGAGCCAGTCAATAGCAGCAAGTGGAAGTCCACCTTCTCGCCCATCTCCGA
CATCGGCCTGGCCAAGTCGGCGGACAGCCCGCTGCAGGCCAGCTCCGCCCTCAGCCAGAACTCCCTGTTCACGTT
CCGGCCCGCCCTGGAGGAGCCCTCTGCCGATGCCAAGCTGGCCGCTCACCCCAGGAAAGGCTTTCCCGGCTCCCT

FIGURE 284B

GTCGGGGGCTGACGGACTCAGCCCGGGCACCAACCCTGCCAACGGCTGCACCTTCGGCGGGGGCCTGGCCGCGGA
CCTGAGTTTACACAGCTTCAGTGATGGTGCTTCTCTTCCCCACAAGGGCCCCGAGGCGGCCGGCCTGAGCTCCCC
GCTGAGCTTCCCCTCGCAGCGCGGCAAGGAGGGCTCGGACGCCAACCCTTTCCTGAGCAAGAGGCAGCTGGACGG
CCTGGCTGGGCTGAAGGGCGAGGGCAGCCGCGGCAAGGAGGCAGGGGAGGGCGGCCTACCGCTGTGCGGGCCCAC
GGACAAGACCCCACTGCTGAGCGGCAAGGCCGCCAAGGCCCGGGACCGCGAGGTCGACCTCAAGAATGGCCACAA
CCTCTTCATCTCTGCGGCGGCCGTGCCTCCCGGAAGCCTCCTCAGCGGCCCCGGCCTGGCCCCGGCGGCGTCCTC
CGCAGGCGGCGCGGCGTCCTCCGCCCAGACGCACCGGTCCTTCCTGGGCCCCTTCCCGCCGGGACCGCAGTTCGC
GCTCGGCCCCATGTCCCTGCAGGCCAACCTCGGCTCCGTGGCCGGCTCCTCCGTGCTGCAGTCGCTGTTCAGCTC
TGTGCCGGCCGCCGCAGGCCTGGTGCACGTGTCGTCCGCTGCCACCAGACTGACCAACTCGCACGCCATGGGCAG
CTTTTCCGGGGTGGCAGGCGGCACAGTTGGAGGTAACTAGGATTTCTACCTCAACCGCGAGACCTATGCAAGGAC
GGTGTGGACCAACTCGCGCCCGCGGCATGGTGCCCGCCGGCCTGCCGGGCTCCCACCCCTGGACGGCAGAGGCAA
GGACGGACGGGAGCTCCACTGTGAATCGGCGGCACGCGCCGCAGGAGGCTGGGACTGGTCCAGTTTGTACTGTCG
ATAGTTTTAGATAAAGTATTTATCATTTTTTAAAAAGTATAAACAATTCTGACTTATTTTATTCCATCTAAGTGG
TAAAAGGCAACTTATTGAGAAATATAAATATCTATATATGAGAGCTCTATATAAAGACACGTGTCTGCAGGGCGG
GCCCGCCAGCGGATTCGCCACAGCCTGCCCCGGTGCTATCTCGTCCCCAGGCCCGCGCCTGCCTCCACCCGCTTG
GTGCTGACTAGACGCTGACAACGCCGAACCCCGTTCTCGGAAACGCCGCCCGGCCGGCTCCCCCGACGCGCTGCT
CCCGTACCAAAGGCAGGCCCGTCGCCACCACATTCCTCGGAGGCCTCCCCGCGGCCTGAGCCCCTTCCTGAGCGC
CCTGGCGCCTGCCCTGAGCTCTTCACCTTTACCCCGGCACTGTGAACCCCCAGACTGTTCACCCTCCGGGGCGTG
GGTTGCGCCCTTGCATGTGAAGGGGCCTGCGCGGTGACGCAGCTGGCCATGTGCTGCGCGATGGTGCTGTGAGGA
CGGCGCGGGCACGTTGAACAAGTGCATTTACTTTTGTATTTCTCGGCTGTCCATGGCTCGCAGCATGCCCTGCGA
TGCGGGGCAGGCCTGTCGTGGGTCCCTTGGTGTTTCTGTACAGGAGAGAGTCACACTAATGAGTGGCAGTATTTT
ATAGAGATGTGATGAGAATTTATAAATTTCATAGATTTGACAGCTTTTATTTTTAGATGGTATAATGCACAGTGA
AGAGGAAAGAAAAGCGAGGGGAAAAAACCTTATTTATTCAAACAGTGCACAAAATGGCCCCAGCGTCAGCCCCGA
CCCTAGACCCCTCAGTTGCAGCTCCCAGCAGCCCAGACAGAGCTGCCGGCGCCCCTGCCTGCCCCACATCCCTTC
CTGTCAGGGCCACGCCTGGCACCCATCCCTTGGAGCCTGTGCTGGTTCTCCCAGCTGCTGTGGGTGTGCTGGGGC
CAGGGTGCACTGCTGAAACCTGGCCTCTCTGGCCCTAGGCCCCAGGGTGACGTCGGCCCCCCACTCTGCAGCCTT
GGCGGGTGCCTGGGACTGGGTGTGGAAGGAGAGGAGCTGAGGCCGGGGTGTAGCAGGCAGGCAGGGCCACTCCAG
TGCTTCTGGAGCCCTGAGCAGTCAGGGCCTGGGTTGTCTGAGCAGTGGTGGCTCTGTGCCCTCCCTGGAGGATGG
GATCTGGGA

FIGURE 285

GACATTTTTGGCGCCGGCCCCAGCCTGAGCGGGGACGGCGGCCGGGAGGGCGCGGCCCGGGTTCCCGTTCCCCGC
GGAGCCATGCGGTACAACGAGAAGGAGCTGCAGGCTCTGTCCCGGCAGCCGGCCGAGATGGCGGCCGAGCTGGGC
ATGAGGGGCCCCAAGAAGGGCAGCGTGCTGAAGCGGCGGCTGGTGAAGCTGGTGGTGAATTTCCTCTTCTACTTT
CGGACAGACGAGGCCGAGCCCGTCGGAGCCCTGCTGCTGGAGCGCTGCAGAGTCGTCCGGGAAGAGCCCGGCACC
TTCTCCATCAGCTTCATTGAGGACCCTGAGAGGAAGTATCACTTTGAGTGCAGCAGCGAGGAGCAGTGTCAGGAG
TGGATGGAGGCTCTGCGTCGGGCCAGCTACGAGTTCATGCGGAGAAGCCTCATCTTCTACAGGAACGAAATCCGG
AAGGTGACGGGCAAGGACCCCCTGGAACAGTTCGGCATATCCGAGGAGGCCAGGTTCCAGCTGAGTGGCTTGCAG
GCGTGAGCGCAGGGCACGGTGGTCAGCGTGCAGCGGGACGGGACTGGCCCTGCCCAGCCATGAATCGCTTGGCCA
TGCCTGGATCTGTTTTGTTTTGGTTTTTGGTTTTTGGGTCAGGGTTTCACTGTGTTGCCCAGGCTAGAGTGCAGT
GGTGCCACAGCTCACTGTGACCTTGACCTTCTGGACTCAAGTGATCCTCCTGCCTCAGCTTCCCAAGTAGCGGGG
ATCACAGGCATGAGCCGCCACACCCGGCCATCACACCTGGATTTTCAGTGGGAGGTTTTTGGTTTGGAGACATCC
AAAGCCTGAAGCCAGGTGGGTGTGGGCAGGGGCTGCATTTTATGAAACTGCCCAGCAAGCTGCGCTCCCTGGGGC
CCCAGGATCCACCTAACTGGCCTGGCACCTGGTGCCACGTGCTGCTGCCGCCAGGATATGCGCCTTCCCACAGGT
GCCCTGCCTGAGTTGTGTGCATCCAGGGGCCTGGTGAGCCCCCAGGCTGGTGGCATGGCCCCCCTGCCCCGTGCT
GAATGAATGTACAGAGCCAGACAAAGCTGTGAATGGCCTAGGGGCTGAGTCCCACACCAGCTGTGAATTCTCCTG
CAGACAGGAGGGCCCTGGCTGTGCACCTGGGGAAGTGGTTGCCCTGGGGCCAGGGTGCTTGTTCTGTTCAAATAA
AGGTACCTCTTTTCC

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FIGURE 286

ATGGACTTCCAGCATCGCCCCGGGGGCAAGACCGGGAGCGGGGGCGTGGCCTCCTCCTCCGAGAGCAACCGTGAC
CGCAGGGAGCGCCTCCGGCAGCTGGCCCTGGAGACCATCGACATCAACAAGGACCCGTACTTCATGAAGAACCAC
CTGGGCTCCTATGAATGCAAACTCTGCCTGACACTTCACAACAATGAGGGGAGCTACCTGGCACATACGCAGGGG
AAGAAGCACCAGACCAACCTGGCCCGGCGAGCAGCCAAGGAGGCCAAGGAGGCCCCTGCCCAGCCCGCGCCTGAG
AAGGTCAAGGTGGAGGTGAAGAAGTTTGTGAAGATCGGCCGCCCGGGCTACAAAGTGACCAAGCAGAGAGACTCG
GAGATGGGCCAGCAGAGCCTCCTCTTCCAGATTGACTACCCTGAGATCGCCGAGGGCATCATGCCACGTCACCGC
TTCATGTCTGCGTACGAGCAGAGGATCGAGCCTCCGGACCGGCGCTGGCAGTACCTGCTCATGGCCGCCGAGCCC
TACGAGACCATTGCCTTCAAGGTGCCGAGCAGAGAGATCGACAAGGCGGAGGGCAAGTTCTGGACACACTGGAAC
CGGGAGACCAAGCAGTTCTTCCTCCAGTTCCACTTTAAGATGGAGAAGCCCCCGGCTCCACCCAGCCTCCCTGCT
GGCCCCCCTGGGGTGAAGCGGCCTCCACCCCCGCTGATGAACGGTCTGCCCCCTCGGCCACCGCTGCCTGAGTCT
TTGCCACCGCCCCCGCCAGGAGGCCTGCCTCTGCCACCCATGCCCCCCACAGGGCCTGCGCCCTCAGGGCCCCCG
GGACCACCCCAGCTACCCCCGCCAGCTCCAGGGGTCCACCCCCCGGCCCCAGTGGTGCATCCCCCTGCATCTGGG
GTCCATCCCCCAGCTCCTGGCGTCCACCCCCCAGCTCCTGGCGTCCATCCCCCAGCCCCTGGGGTCCACCCACCA
ACCTCTGGGGTCCACCCCCCAGCTCCTGGAGTCCACCCTCCAGCCCCCGGGGGTTCACCCACCAGCCCCCGGAGTC
CACCCACCAGCCCCTGGGGGTTCACCCACCAGCCCCAGGGGTCCATCCTCCCCCATCAGCGGGGGTTCACCCCCAG
GCCCCGGGGGGTGCACCCAGCAGCCCCCGCCGTTCACCCTCAGGCCCCAGGGGTGCACCCACCAGCCCCAGGGATG
CACCCTCAGGCCCCGGGGGGTCCACCCCCAACCTCCCGGGGGTCCATCCGTCGGCTCCTGGGGGTCCACCCTCAGCCT
CCGGGAGTTCACCCCTCAAATCCTGGGGGTGCACCCCCCAACTCCCATGCCCCCAATGCTGAGGCCCCCACTTCCC
TCCGAAGGCCCAGGGAACATACCTCCCCCTCCCCCAACCAACTGA

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FIGURE 287

CACATCAGGCCCAGCTCTATCACTGGGGAGGGAGATAGGCTGCCAGGGACAGAAAGGGCTCTTTGAGAAGGCCAC
TCTGCCTGGAGTGGGGGCGCCGGGCACTGTCCCCCAAGGTCGCGGCAGAGGAGATAGGGGTCTGTCCTGCACAAA
CACCCCACCTTCCACTCGGCTCACTTAAGGCAGGCAGCCCAGCCCCTGGCAGCACCCACG**ATG**CGGGACCTGCCT
CTCACCAGCCTGGCCCTAGTGCTGTCTGCCCTGGGGGCTCTGCTGGGGACTGAGGCCCTCAGAGCAGAGGAGCCA
GCTGTGGGCACCAGTGGCCTCATCTTCCGAGAAGACTTGGACTGGCCTCCAGGCAGCCCACAAGAGCCTCTGTGC
CTGGTGGCACTGGGCGGGGACAGCAATGGCAGCAGCTCCCCCCTGCGGGTGGTGGGGGCTCTAAGCGCCTATGAG
CAGGCCTTCCTGGGGGCCGTGCAGAGGGCCCGCTGGGGCCCCCGAGACCTGGCCACCTTCGGGGTCTGCAACACC
GGTGACAGGCAGGCTGCCTTGCCCTCTCTACGGCGGCTGGGGGCCTGGCTGCGGGACCCTGGGGGGCAGCGCCTG
GTGGTCCTACACCTGGAGGAAGTGACCTGGGAGCCAACACCCTCGCTGAGGTTCCAGGAGCCCCCGCCTGGAGGA
GCTGGCCCCCCAGAGCTGGCGCTGCTGGTGCTGTACCCTGGGCCTGGCCCTGAGGTCACTGTGACGAGGGCTGGG
CTGCCGGGTGCCCAGAGCCTCTGCCCCTCCCGAGACACCCGCTACCTGGTGTTAGCGGTGGACCGCCCTGCGGGG
GCCTGGCGCGGCTCCGGGCTGGCCTTGACCCTGCAGCCCCGCGGAGAGGACTCCCGGCTGAGTACCGCCCGGCTG
CAGGCACTGCTGTTCGGCGACGACCACCGCTGCTTCACACGGATGACCCCGGCCCTGCTCCTGCTGCCGCGGTCC
GAGCCCGCGCCGCTGCCTGCGCACGGCCAGCTGGACACCGTGCCCTTCCCGCCGCCCAGGCCATCCGCGGAACTC
GAGGAGTCGCCACCCAGCGCAGACCCCTTCCTGGAGACGCTCACGCGCCTGGTGCGGGCGCTGCGGGTCCCCCCG
GCCCGGGCCTCCGCGCCGCGCCTGGCCCTGGATCCGGACGCGCTGGCCGGCTTCCCGCAGGGCCTAGTCAACCTG
TCGGACCCCGCGGCGCTGGAGCGCCTACTCGACGGCGAGGAGCCGCTGCTGCTGCTGCTGAGGCCCACTGCGGCC
ACCACCGGGGATCCTGCGCCCCTGCACGACCCCACGTCGGCGCCGTGGGCCACGGCCCTGGCGCGCCGCGTGGCT
GCTGAACTGCAAGCGGCGGCTGCCGAGCTGCGAAGCCTCCCGGGTCTGCCTCCGGCCACAGCCCCGCTGCTGGCG
CGCCTGCTCGCGCTCTGCCCAGGTGGCCCCGGCGGCCTCGGCGATCCCCTGCGAGCGCTGCTGCTCCTGAAGGCG
CTGCAGGGCCTGCGCGTGGAGTGGCGCGGGCGGGATCCGCGCGGGCCGGGTCGGGCACAGCGCAGCGCGGGGGCC
ACCGCCGCCGACGGGCCGTGCGCGCTGCGCGAGCTCAGCGTAGACCTCCGCGCCGAGCGCTCCGTACTCATCCCC
GAGACCTACCAGGCCAACAATTGCCAGGGCGTGTGCGGCTGGCCTCAGTCCGACCGCAACCCGCGCTACGGCAAC
CACGTGGTGCTGCTGCTGAAGATGCAGGTCCGTGGGGCCGCCCTGGCGCGCCCACCCTGCTGCGTGCCCACCGCC
TACGCGGGCAAGCTGCTCATCAGCCTGTCGGAGGAGCGCATCAGCGCGCACCACGTGCCCAACATGGTGGCCACC
GAGTGTGGCTGCCGG**TGA**CCCCTGCGCCGCGCGGACTCCTGCCCCGAGGGTCCGGACGCGCCCCAGCTCGCGCCC
CTTCCCATATTTATTCGGACCCCAAGCATCGCCCCAATAAAGACCAGCAAGCAACCGG

FIGURE 288

TGCGAACGGCGAGCAGCGGCGGCGGCGCGGAGAGACGCAGCGGAGGTTTTCCTGGTTTCGGACCCCAGCGGCCGG
ATGGTGAAATCCTCCCTGCAGCGGATCCTCAATAGCCACTGCTTCGCCAGAGAGAAGGAAGGGGATAAACCCAGC
GCCACCATCCACGCCAGCCGCACCATGCCGCTCCTAAGCCTGCACAGCCGCGGCGGCAGCAGCAGTGAGAGTTCC
AGGGTCTCCCTCCACTGCTGTAGTAACCCGGGTCCGGGGCCTCGGTGGTGCTCCTGATGCCCCTCACCCACCCCT
GAAGATCCCAGGTGGGCGAGGGAATAGTCAGAGGGATCACAATCTTTCAGCTAACTTATTCTACTCCGATGATCG
GCTGAATGTAACAGAGGAACTAACGTCCAACGACAAGACGAGGATTCTCAACGTCCAGTCCAGGCTCACAGACGC
CAAACGCATTAACTGGCGAACAGTGCTGAGTGGCGGCAGCCTCTACATCGAGATCCCGGGCGGCGCGCTGCCCGA
GGGGAGCAAGGACAGCTTTGCAGTTCTCCTGGAGTTCGCTGAGGAGCAGCTGCGAGCCGACCATGTCTTCATTTG
CTTCCACAAGAACCGCGAGGACAGAGCCGCCTTGCTCCGAACCTTCAGCTTTTTGGGCTTTGAGATTGTGAGACC
GGGGCATCCCCTTGTCCCCAAGAGACCCGACGCTTGCTTCATGGCCTACACGTTCGAGAGAGAGTCTTCGGGAGA
GGAGGAGGAGTAGGGCCGCCTCGGGGCTGGGCATCCGGCCCCTGGGGCCACCCCTTGTCAGCCGGGTGGGTAGGA
ACCGTAGACTCGCTCATCTCGCCTGGGTTTGTCCGCATGTTGTAATCGTGCAAATAAACGCTCACTCCGAATTAG
CGGTGTATTTCTTGAAGTTTAATATTGTGTTTGTGATACTGAAGTATTTGCTTTAATTCTAAATAAAAATTTATA
TTTTACTTTTT

FIGURE 289

GCCGTTGGTTGCGGCGGGCACCGGCCGACATGGCGGCAGCGGTGGCGGCTGCGCTGGCGCGGCTTTTGGCGGCCT
TTCTGCTCCTCGCGGCCCAGGTGGCCTGTGAGTACGGCATGGTGCACGTGGTCTCCCAGGCCGGGGGCCCCGAAG
GCAAAGACTACTGCATCCTCTACAACCCGCAGTGGGCCCATCTTCCGCACGACCTCAGCAAGGCATCTTTCCTGC
AGCTGCGCAACTGGACGGCCTCCCTGCTCTGCTCCGCAGCCGACCTCCCCGCCCGTGGCTTCAGCAACCAGATCC
CGCTGGTGGCGCGGGGGAACTGCACCTTCTATGAGAAAGTGAGGCTGGCCCAGGGCAGCGGAGCACGCGGGCTGC
TCATCGTCAGCAGGGAGAGGCTGGTCCCCCCGGGGGGTAATAAGACGCAGTATGATGAGATTGGCATTCCCGTGG
CCCTGCTCAGCTACAAAGACATGCTGGACATCTTCACGCGTTTCGGCCGCACGGTGAGGGCGGCGCTGTATGCGC
CTAAGGAGCCGGTGCTGGACTACAACATGGTCATCATCTTCATCATGGCTGTGGGCACCGTCGCCATCGGCGGCT
ACTGGGCCGGGAGTCGGGACGTGAAGAAAAGGTACATGAAGCACAAGCGCGACGATGGGCCCGAGAAGCAGGAGG
ACGAGGCGGTGGACGTGACGCCGGTGATGACCTGCGTGTTTGTGGTGATGTGCTGCTCCATGCTGGTGCTGCTCT
ACTATTTCTACGATCTCCTCGTGTACGTGGTCATCGGGATCTTCTGCCTGGCCTCCGCCACCGGCCTCTACAGCT
GCCTGGCGCCCTGTGTGCGGCGGCTGCCTTCGGCAAGTGCAGGATCCCCAACAACAGCCTGCCCTACTTCCACAA
GCGCCCGCAGGCCCGTATGCTGCTCCTGGCGCTCTTCTGCGTGGCCGTCAGCGTGGTGTGGGGCGTCTTCCGCAA
CGAGGACCAGTGGGCCTGGGTCCTCCAGGATGCCCTGGGCATCGCCTTCTGCCTCTACATGCTGAAGACCATCCG
TCTGCCCACCTTCAAGGCCTGCACGCTGCTGCTGCTGGTGCTGTTCCTCTACGACATCTTCTTCGTGTTCATCAC
GCCCTTCCTGACCAAGAGTGGGAGCAGCATCATGGTGGAGGTGGCCACTGGGCCCTCGGACTCAGCCACCCGTGA
GAAGCTGCCCATGGTCCTGAAGGTGCCCAGGCTGAACTCCTCACCTCTGGCCCTGTGTGACCGGCCCTTCTCGCCT
CCTGGGTTTCGGAGACATTTTGGTGCCAGGGCTGCTGGTGGCCTACTGCCACAGGTTTGACATCCAGGTACAGTC
CTCCAGGGTATACTTCGTGGCCTGCACCATCGCCTATGGCGTTGGCCTCCTTGTGACATTCGTGGCACTGGCCCT
GATGCAGCGTGGCCAGCCCGCTCTCCTCTACCTGGTGCCCTGCACGCTGGTGACGAGCTGCGCTGTGGCGCTCTG
GCGCCGGGAGCTGGGCGTGTTCTGGACGGGCAGCGGCTTTGCGAAAGTCCTACCTCCATCTCCGTGGGCCCCAGC
ACCAGCCGACGGCCCGCAGCCTCCCAAAGACTCTGCCACGCCACTCTCCCCGCAGCCGCCCAGCGAAGAACCAGC
CACATCCCCCTGGCCTGCTGAGCAGTCCCCAAAATCACGCACGTCCGAGGAGATGGGGGCTGGAGCCCCCATGCG
GGAGCCTGGGAGCCCAGCTGAATCCGAGGGCCGGGACCAGGCCCAGCCGTCCCCGGTAACCCAGCCTGGCGCCTC
GGCCTAGGGGAGGGGTGAGACGCTCGCTGCCGTGCCCGCCACACCAAGATGTTGGGGCTGCCTGGCGCCCACTGG
AGACAGACAGACAGACGCCTGTCCCCCGGGACCGAGGCCTGTGCCGTCCCCACCCGCCCCAACATGGTGCTCATC
CTTGCCGAGACCCCTGCGGTCTGTGCCCGCGCCCAGCCCAGCTGCCCCGGCTGCACGCCTGCTGCTCCCAGCTCG
CCCGGCTGCCACAAGCTCTCTGCGGGTCCATCCTCCCCACCGGGGTCCGTCCTCGCAGGCCCTGCCCGGCCTCTC
TGCAGACCCTCAAGCGTCGTCTGCATGAGTGAGCAGGCGTGGGTGGACTCTGGCCGCGGCCACACTTGGTGCTCA
CCAGCTGCTTCGGCCTTCAGGTGACCTCCCTCCCCACGGCATCCTGCTCTCCGGGTGGAAGAGCAGCTTTCTGTC
TCCCAGAAGGCATCGCTTTTCCCTCTTGAGCAGATCGGAGCCCCTGGGAGGTTTGGAAGCTGCCTCCAAGCCTAG
GACACGGACCAGTGGCCGGGGCGGCCTCTGGCCCCTGACGCTGGCTGAGACAGGCCCGTGGGGCGGGGTTTTGGG
GCGTGAACAAGGCTGGCAGTAAGTGGACAAGCTGCTCCCCTGGCTAAGGCCCTGCCCTGCCCTCAGCCAGAGGTG
CCTGGCCATGCCTGCACACTCCTCCCCATTTTAATAAATGGTCGCAACTTCTAGAAGTCCTGCTGGTGCCACCTG
GTGGGGTGGACGTCTCTCAGACTGCCCTTCTGACAAGCAGGGGTGGGCGCCAGGCAGGCTGGGTCAGGCCCTCAG
GGGTCCCTGGAGCCCTGGGAGGGAGGGACTGGGTCGTGGGAGGTCCTGGTAGCTCCCGGCACCCAACCTCGCTTC
CCGTGTGGGCCCCGTGTTGCTTTTCTGCTGAGAGGGGCTTGGGCCTCGGTTCTCCCTGTGGCAGCGGCATTGGTG
CCTGGGTTCTTAACCCTCTGGACCCAGCAGCTAGGAGCTTCTGGAACCCACGAGGACATCTGCCACTGGCATGGT
CTACTCACTGATGGGGTCCTCCTGACTCCAGGGCAGAGACGTCCGTGCGGGAACTGACCGAGGCGTGGCCCCAGG
CCCCGGCATCCTCCCCTCGCTGCACGTGGTCACTTCCGAAGCAGCGCTCCCTGTGGCCGCAGAGACAGAGCCCGC
ACCCTGGCTGTCTGTGGTGCCTGGGCCCCAGCTCCCGCCCGCCACCCGCCCTGTTGAGTGCGGCCTCCAGACTCG
AGTCCAGAATCTGTTTCTGTCAAGTCAGTCGTCCCCAGCTGCACACGGGGACTGCTGAGCGCTGCGCTCTCACGG
GTCTGTTCCGGACAGAGGGTGGCAGGGGTGAGCCCTGATCCCTTACAAAAAATACCAGCTTCCCAGGGAGTAATG
GCGCCTTCACTGAAGCCATTTTGTACATGGGGACGGGGTGGGGACGTCTCTTTTTTGGTGTTGGACGTTTGACCA
GTGGGGAGGGGTTCAGAGGCGGCGGTCCTGTCCTTGGCTCCGTCTGTCCGTGTGGCCTTGCTGCCATTCCGTCTG
ATCATTAAACACAGCTTTTGATAC

FIGURE 290

ACCCCCAAGGAAAAAGGTCACTGGCTAGTGTAGCTAGTGTAAACAGGACCCAGGCGATGCATGGGACCCTGCCCT
TTTTTTTCTAGTGAGCCTCCGACGCTGTTGCACAAGCTGACTCTTCGTCACGTGATGCGACCGGGCTCCGCCCCG
GCGGCAACACGCTGTATAGACGCGCCGGGTGCCTCGTGCGCATGCGCGGCAGGCCCTTCGGGACGAGCTGGAGGC
AGAGCGTGAGTACAAAGTGATCGGCCTCGGCCGCACGTAGTAGCCCCCCTACTCCCCGGCCAAGTCAGGGCCTCC
CTCTTCCCGCGGAGTCGCAACCACGGGTAGCTCGTGTAGGTAACGGCAGGTCCAGGCCTCCGCATGAGCGGAGGG
CCCCCCGCGCGACCTTGAATGGCCCGGGCGCGCGCGGTCGTGTGGGAGTTGTAGTCCTCCGTCCCCGTCCGCGCG
GACTCCGTTTCCCGTGGTGCCCCGGGCGGCCCGCTTCCGGCGCAGTTAGTTACGAGTCGGCGCACGCGGCCTCGG
TCCGGTTGACTTTGCGGAGCC**ATG**GAGGGCGGCTTCGGCTCCGATTTCGGGGGCTCCGGCAGCGGGAAGCTGGAC
CCAGGGCTCATAATGGAGCAGGTGAAAGTGCAGATCGCCGTGGCCAACGCGCAGGAGCTGCTGCAGAGGATGACG
GACAAGTGTTTCCGGAAGTGTATAGGGAAACCTGGGGGCTCCCTGGACAACTCCGAGCAGAAGTGCATCGCCATG
TGCATGGACCGCTACATGGACGCCTGGAACACCGTGTCTCGCGCCTACAACTCGCGGCTGCAGCGGGAACGAGCC
AACATG**TGA**CCGGCGAGCGCGGGCCACCCCACCCTGTTCATTTCCATAAACGTGCTTTGAGAGGCGGGGTCCGCA
TGTACGTACTGCCTGCCCGGGGCTTAGGAGGGTGGCACCGGTGCTGGGACACACGGGACTGTGTCCTCGCCACCC
CCCGCCCTGCCCCCTGCCAGCCAGTGCAGCTTGGATCTCGGGGGTGTGGGGCCCTGTGCCTTCCTGAAGTGCTGG
CAGCCCAGTGGCACCTCCTTCAGGCCTTTGGGGTATTCCCCTAGTGTGCCCAAGTCAGCCTCATATTCTGGGCGG
ACAGCTTGTCTGGACTTCGGAGTTGGGGGTGGTCAGACACCACAGGAGCTGTCACCTCCTGCGGATGGGCAAATA
AATTGGTGGAGGACGGAGAGAAACCTCTTTATTTCCCTCCTGAGGGGTCTCTGGGAAGAGGTGACGCGTGTCCCT
GGAACCCCAGCTCGGAGGGTCTCAGCCTCCCCTGGGTTGGGAGAAGTCCATCTTTCCCCTTAGTGCCACCGGGCT
GCTGAGTCACGAGGAATGTGTTGCTGCTGCCACCCCTGCCCCAAAGGCTAAGGGGGACAGCCTTCCCCTTGTCAG
GGCTTGCTTTGACCCTGCTTCGTTCCACCCCGGGTCCTGGTGGAGCACCAGGCAGGTGGTCCTCGCTGTGACACT
GAGGTGCTGAGCCAGTGAGCTAGGGTGGAGGGGCTGTGTTTATTGGAACAAAGGGTGGTACCAAAATGCATCCCC
ATGACCCACAGCCCCCCCACACCCGTCCTTGGGTAGGGTACGGTGGGGTGGGGTGTTGGGTGGCCTGCTGCTCCT
GTTGCTTTCACGTAGAGTCTCGGCCTGGGCAGTCACGTGGTGGTCACTCCTGGATGTGCTGTCCTATCCAGCCTC
TCACAGCTGCCACCCGGGTATAGACACCTGGGAAGTGGGGCCGGCCACAGCCATAGCCCCAGCTAGTGACCCCAG
TTAGCACCCACCGTCCAGAGGGCTCCCTGCAGGCCAGGGGTCCCCCAGCGTCACCCTGTTGGGGAGAGAAGAAAG
GGGGTTCAGAGGCCGGTACCTCCCCTACAGCAGCCCTTGGGTCATTGGCCCCTCTAGGAGTGACCCTAGTGACTT
CCCCTGGGAGCCGCATTTTCACTATCTGGAAAATGGGCTCAATGCAAAGGTGGCAGACATTTATGGACACCCGCC
ACGTGGTCCCGGAGTGGAACGGTGCCTCCCACTGCAGCCTCTGCCTGCTCTGCCGCCGAGGCCCGGGGATGGGAT
GCGGTGGGTTGCCCAATAAACGGCTGTGGAGTGGAAATTCCTCCAGAGCCAAAAAGGC

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FIGURE 291

TTTTAATGGATATTTATTTTTTTACATTGGTCAGTACACAGGTCAGGAGCTCACGCCAGGGCCTTGAGGACAGGC
TGACCCTCCTCCCCGGGGTGGCGTGGGGCTGGGGCACCCTCCGACGGCAGAGCCTCCTTCAGAAAGTGCAGCTCA
AGTCTTAAAGACACCAAAACTGAGCCATGGGCACGCGCCGTCTCCGGGCC**ATG**GCGTTCACTGCAGGGCGGGGGC
GGCACCGCTCCCCTGTGACTGCATCCCGCCTCCCTGGGGACCTGCCTGTGGCAGGAAGGAATGGGGGGCCCCAGC
CCCAGGCCGGGAAGGAGCCAGCGGCCGACAAAGCAGAAACACCCGCTGCTCCACGTAGCCCCTGCTCGCTGTCCT
TGCTCTCAGAAGTCCCGGTCCCATGTAGA**TAG**AGGGGGGCGCATCTTACCAAAGCATTTCCTCCTGGAGGCTACG
CCGCTGTGCTCCCAGTCAGGCGGCTGGTAGGGAGCTTTGCCTGCCCCGGGGATACCCTCTGCCAGCCGCTGGAAG
TGGGAATGCTGGCGACAGACTGTGTCCTCTTTCCCACCTTCATAGCAGGAATCACCCGGACCCGACTGGCTGGGC
TTCGTGCTAGCGAGGGTTCTGGGGGTGGGTCTTGGTGATCTTGTCCTATGGGGAGTCTGCAGTGGTCTCAGCCAC
ATCCTATGTATTTTGGCTCTGGAGGAGCAAAGCTGTATCCTGGAGTTGGTCTGTGATTTGCCGACAGCCTTGCAG
GCTGGGCTCAGGGACAAAGTCCCCCCCAAAACCCGCAGGTCCTCATGTCCAGACGCTGCCCAGTCCTGTCCTGAA
AACAGCACGCCCCAGGCCCACAGAACCCCCCACCCTACATTTGCCTTGGGTGGAGCTGGGGGTGGTCCTAGGACT
GCGGGTGCCCTTAGCTGAAGGGGGTGGGGAGAAGCGTGGACTGGGCAGCCTGTGGGTAATTGGAGGTTCATTGAG
AATTGAGTCTTTGGAAACACTAAGAAAATCAAATTTTTAAAAGTTATTTATGGCCTGGGAAACAATTTGCATTTG
TCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGCGAAACCATCCCTCTGTGTAAGCCCGTGCCGTGTGA
CTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACCCAGCCCTGGGGGGGAGGCCCACGCCTGCTGGACC
AACGCGGGTTCTGGGGTGCACAGCGCCAGGTTAACGCTGAAGCCTGCCCCGCTGAGCCCAGGAGCCGGGAGGCCT
GCGGGCTGACCCAGAATCCGATCATGCACCTGTCCTCATGCCAGCGGCTTTGGCTGGGGTTGGTCTGAAGCCTGC
ACGCGGCAGTTCTTTGTTAAAGATCTGAGGGACTCCTCAGTCCTGGGGCGTCGCCGCCTGCAGCCTCTTCCAAGC
CCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCTGGGCTGCAGCTGGGGCTGGCATGGACTTTC
ATTTCAGAGATTCGGTTTTTAAGAAGATGCATGCCTAATGTGTTCTTTTTTTTTTCCAATGATTTGTAATATACA
TTTTATGACTGGAAACTTTTTTGTACAACACTCCAATAAACATTTTGATTTT

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FIGURE 292

AGCTCTGACCAGAACGACAAGGCGGCCAGTGCGGCTCGCGAGGAGCTGAAGGAGGCCCGC**ATG**CGCCTGGAGTCC
CTCAGCTACCAGCTCTCCGCCTCACTTCGCTGCCACTTCGCCGCTGCCCCGGAGACTTTTCAATCCCACCCCACT
CCTCATCTCACCATTTGGTCAAATTGGAAGCCCAGGGCCAGGACCCGGAGGTTTAGAAGATGCTTGGGCTTGGAG
GGAGGAGGGCCGGCGAGGCTAGCGAGGGGACAGGAGACGGCCCTGCTGCGGACGGAGCGCGGAAACTGCGTAGGA
ATTCAGTGGTGGTGGGTTTTTTTAAGGCTTTCTACAAAACCAAATTCAGAATCCAGGCGTCGACCTGGTGGGGCC
CGGGGCCAAGCCTGCATTCTGGCTGCCCAGCTTCGGACAGCGGGAACTCCTCAGGCAGCCACGCAGCGGGTGTGG
GCCAGCATGGGGATGGCGTGGCCCCCAGGGCGGGTTTTCACTCCGCTGCCTGGGCTTCCAGATTCCCGTTCTGGC
AGCGCACCGGCCGGGTTTCTCGGACCGTTGACTTTATTTGGGGGAGTTTTCCCGCAGTTCAGTTCC**TGA**CTGTGC
AAGGCCAACAGGGCAGGGGAGGGGAAGACCTGGGGAAGGAAGAATGAGGACAGTCCCGTCGTAAGACCTGTCACA
ACAATA

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FIGURE 293

CGTCGGACTACCGTTGGTTTCCGCAACTTCCTGGATTATCCTCGCCAAGGACTTTGCAATATATTTTTCCGCCTT
TTCTGGAAGGATTTCGCTGCTTCCCGAAGGTCTTGGACGAGCGCTCTAGCTCTGTGGGAAGGTTTTGGGCTCTCT
GGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGCATCCACTGTGGATTATAATTGCAACATGAC
GCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCAGACGGTGACCGCCGCGGTGGAGGAGCTTTT
GGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGAGTCGGCCAAGTTGATGAATGTGGACCCAGA
CAGCGTGGTCCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGATGACATCGCCCTGCAAATCCACTTCACGCT
CATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGTGTCGGGCATGCAGCGCCTGGCGCAGCTCCT
GGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCGAGACCTGCATTGTCTCCTGGTCACGAACCCTCACAC
GGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTACTGCGAAGAAAGCCGGGGCAACAACCAGTGGGT
CCCCTACATCTCTCTTCAGGAACGCTGAGGCCCTTCCCAGCAGCAGAATCTGTTGAGTTGCTGCCACAAACAAAA
AATACAATAAATATTTGAACCCCCTCCCCCCCAGCACAACCCCCCCAAAACAACCCAACCCACGAGGACCATCGG
GGGCAGAGTCGTTGGAGACTGAAGAGGAAGAGGAGGAGGAGAAGGGGAGTGAGCGGCCGCCCCCAGGGCGGAGAT
CCAGGAGCTGGCGGCCGCCGATCCGATGGAGAAGGGGGGACCCAGGCCAGCAGGAGACAGGACCCCCGAAGCTGA
GGCCTTGGGATGGAGCAGAAGCCGGAGTGGCGGGGCACGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTC
CACTCGGGGGTGGAGTGAGACTGACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGGCGTCTGCATACGAGAGA
CTTGGTTGAACTTGGTTGGTCCTTGTCTGCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAA
GTTGCTCTGTACCCATGAACTCCCAGTTTGCGAATTATAGAGACAATCTATTTTGTTACTTGCACTTGTTATTCG
AACCACTGAGAGCGAGATGGGAAGCATAGATATCTATATTTTTATTTCTACTATGAGGGCCTTGTAATAAATTTC
TAAAGCCTC

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FIGURE 294

CATGTTTTTGGATTTTTTTTTTTTTTCTTTTTTTGAGATGGAGTTTCATTCTTGTTACCCAGGCTGGAGTGCAGC
TGCATGATTTCAGCTCACCGCAACCTCTGCCTCCCCGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCT
GAGACTACAGGCGTGTGCCACTACGCCCGGCTAATTGTTGTATTTTTAGTAGAGACGGGGTTTCACCGTATTGGC
CAGGCCGCTCTCAAACTCCTGACCTCGGGATCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAG
CCACCGCGCCCAGTGTGTTTTAAGCATGAGGCATCCGCGTGGCTGGGAGAGGCTTTGACCATCCTTGGCTCTTCC
AGGTTGTCCTACCCTCTGGCATCCACCATAGACGTTTTTCAAACAGAAAATGCAGGCTGGGGAGCCGCGGCAGGG
CGGGTGGGGCTACCCTGTGCTGCTGTGTGTACAAAATTGTTCCATGATCTTGGAGTGACTCTGAAGGACTCTGGG
AGGTGAGACGTTGTCCCGGAGATCAAAACGTCCGCTCAAAACGTTACCCTGTCGCTCGAACCCGATCTTTTTGCT
TTTCCACCCCCGTGCAACCCAGGACGGCTGTCTGAGGCCGGGAGATGCCTTAGACGCAGGATGGGCCACTCCTCC
CAGCGGCAAGTGGAAATCGAAGATGTCATGGGGTCGGGGGGAGGCTTCTGAAAGATGACTGCGTCCTCCTCTGCG
GCACGGACGGGAGCAGGTGCAGCCACATCTTCCAGGGCCTGCCGGCATCACCTGCGGCCACACCTGAGATGGACC
CCACGCAGCCCTGATCGCAGGAGGCCTGGCCGCCCCGACCCCCTCCACGGGGCTGGCCTAGAAGCAAGTAGTAGA
ATAAAACTAGCCTAGTCCTGTCCCTCCGGCCCCAGTGGAGACAGGCGTCTAAGAACCCGTGCCGAGAGGGTTCCT
GGACGGCCGCCCAGGTCCTCCGTGCAGGCCCGTGAGGCGGGGATCCCTGCTTGGCTCACTTCCTGAGCTGGTGAC
TGCCAGGGTTCCCACCTCGCCAAGGCTAGAGGGCTCCGGGTGTGTGTGCAGGTGTCGGGGGAGTGACCTCCACTC
CTCAACCTCGGGCAGCTCCCACAGGCCACAGCCGGGCTCCCCACCCCCGGCACCCAGCTCTCTACGGCAGGTCCG
GGAGGGCTGGGGCTTCGGGGAGCCCTACCCGCCAAACCTGCTGTTGGCCCGGGAGAGCCCCAGAGGCTCCCGGAG
ACTGCAGCCTCCTGTGGTTGGGCTGGGAGCCGGCAGGGTTTGGGGTGTGGGCGTCCCCACCACGCATAGCAGGAA
TGGCAGGAAGGGACAAAAGCCTGTTCCAGAGACCCTGGGAGGACCCCAGGCAGGGAGAGCCCGCCTGCCTCCACC
CTTTCCAACAAGCCATCTTGGTAACTGGGAACAAACACACCCCACCCCGTTTTTCCTTAAAAGAGGCCTTAATCC
CCGAGCCCCCGCTGCCAGGGCAGAGGGAGGAGGGGGCACAGCTGTGCCAAGCCCGGCCCCACTGGTGTGTCCTCA
CAATGTGACCCCAGAAATGCCAGCAGGGAACGGAGGCTGCTGCAGAGACGCAGCCCCAGGCAGCCGGGGCTCCTA
GGCTGGTGCAGATGGTGGGGTTAAACGGGCTGAGCGTTCCAGGTAAACTGAGGCTCGGGGAGGGGAAGGACAGGC
TGGCCTCTCCTTCACTGTCCACAGGGCCTTGGGTTCCCTGAGCTGTCCAGACCCCACCATCTCCCGGACCCCAGG
GAGGTGGCCATTGCCAGAAGCCTGTGGGTTTCTTTCTAGCTTGGGGGATTAAAAAAAAAATTCTCCACTTTTTTT
TTTCTTGAGTAGACTTCAGTGACCACACTGTGGAAAATACCTTTGCAGACGTGGCACCCGAGTGCACACACCGAC
CGCCACATGTGCTTTTCTGCCGGGAATCCCTGGGGTGAACGCATGTTTTATGGGCGTTTCCAGGAGCGCGCGTGC
ACCTCCAGACGGGGAGCTGGCGGGCGGGGGTGGCAGCAGCAGCTCTAGCCTTGGGGGGACAAGCCTCTCTCAGCT
ACGCCAGGGGAAAAGAGAGTTAAGGACACTCACCCCCACCCACGCACACACACAAGGCAGCGTCGGGTGGGAGAG
AGAAGGCCGTTTCTCCTTCTGTAGCCTGGGTCTCCCACGGGCCTTCCCCGCTGCTGAGCGAGACACCAGTAGCCA
GGTGAAGGGCCACAGCGGGCCAGGCCCCGACCCTGTTGTGACCCACCTGGGCACCTTCCCGGACCAGCTCCGCCT
CCCCTGCCCTCCTCTCTCCAGGAAGGAGCCAGAACCCTCACCCCTCTCCCACCCTCCCCAGGGGTAACCCCAGGC
CAAGCACAGATAGCTCAGCTGCGACCTCTGGCCTCTGGGGACATAAACGGGGCGGCTGGGCCAGGGCGGAAGGTG
CTCCTGTTTCCCTCCTTCTGCGTGGTCCCTTTGACGGGCCGGCCACCGTGTCCGAGGCGCAACGCTAGGCCTCCA
GGCCACGCATCCATCTCCAAGTTAACAGCCCGTCCTGCCCAAGTTCTGGGGCAGGTAGGAGAGGGCCGTCACACA
CCTGTCCGCCCGTGAGTGACCCGGGGGGGCTTCCGGGTGGAGGTGGAGCCACCACGCCCTTCCTCAAGGGGTCAC
TTATTAAAAAGTCCACGGCCTGAGGCCAGGCCCTCTGCACAGAAGCCATATGCC

FIGURE 295

GGGCAGGGGCGTGGGCGGGGCGTGGACCAGCCGCGCCGAGCGGGGCCTCTCCGGGCCGCGTCTGTGGGGTCGAGA
CTGCGCGGCCGTTGGGCGTGCAGCGGCGCCAGTCGGCGGACGAGGGGCCCCCGGGAGTTGCTGGACTGAGACATG
AGCCTCCAACTGTGTGGTTGGGCTCGGTAGCACATCGTGGGACTTGGGTGTGCGCCCACAGATGGTTTGGCCCTG
CAGTGACCAGAGCAGCCCAAGCCGCCACC**ATG**GTGAAATTGCTAGTGGCCAAAATCCTGTGCATGGTGGGCGTGT
TCTTCTTCATGCTGCTCGGCTCCCTGCTCCCCGTGAAGATCATCGAGACAGATTTTGAGAAGGCCCATCGCTCGA
AAAAGATCCTCTCTCTCTGCAACACCTTTGGAGGAGGGGTGTTTCTGGCCACGTGCTTCAACGCTCTGCTGCCCG
CTGTGAGGGAAAAGCTCCAGAAGGTCCTGAGCCTCGGCCACATCAGCACCGACTACCCGCTGGCCGAAACCATCC
TCCTGCTGGGCTTCTTCATGACCGTCTTCCTGGAGCAGCTGATCCTGACCTTCCGCAAGGAGAAGCCGTCCTTCA
TCGACCTGGAGACCTTCAACGCCGGATCGGACGTGGGCAGCGACTCGGAGTATGAGAGCCCCTTCATGGGGGGCG
CGCGGGGCCACGCGCTGTACGTGGAGCCCCACGGCCACGGCCCCAGCCTGAGCGTGCAGGGCCTCTCGCGCGCCA
GCCCCGTGCGCCTGCTCAGCCTGGCCTTCGCGCTGTCGGCCCACTCGGTCTTTGAGGGCCTGGCCCTGGGCCTGC
AGGAGGAGGGGGAGAAAGTGGTGAGCCTGTTCGTGGGGGTGGCCGTCCACGAGACACTGGTGGCCGTGGCCCTGG
GCATCAGCATGGCCCGGAGTGCCATGCCCCTGCGGGACGCGGCCAAGCTGGCGGTCACCGTAAGCGCCATGATCC
CCCTGGGCATCGGCCTGGGCCTGGGCATTGAGAGCGCCCAGGGCGTGCCGGGCAGCGTGGCGTCCGTGCTGCTGC
AGGGCCTGGCGGGCGGCACCTTCCTCTTCATCACCTTCCTGGAGATCCTGGCCAAGGAGCTGGAGGAGAAGAGTG
ACCGTCTGCTCAAGGTCCTCTTCCTGGTGCTGGGCTACACCGTCCTGGCCGGGATGGTCTTCCTCAAGTGG**TGA**G
CGGCCTCGCCATTGTCCCTGCCGCCGGAGCCCGCCGGGAGCCCCGGGCCGGACACAGGCCGCGTCCCCCGGCCGC
GCGTCCCCCAAGAGCGAGCACTGTGGCCCTGGGCCACCACCTGTGCACAAGGGGCCTCCCGGGACCAGGCTGTGC
CCCCGATCCTACACCCTGAGCCTCAGAGCACTGCTACTTTTTAAAATACTTCTTTCTCTTAAAAGTCTTTACC

FIGURE 296

GGCGTCGCGCCCTGGGGCCGGGGCCGGGCGGCACCGCGGTGCGCAAGCGCAACCGTCGGTGGGTCGGGGATCGGT
CGCCTGAGAGGTATCACCTCTTCTGGGCTCAAGATGGACAACAAGAAGCGCCTGGCCTACGCCATCATCCAGTTC
CTGCATGACCAGCTCCGGCACGGGGGCCTCTCGTCCGATGCTCAGGAGAGCTTGGAAGTCGCCATCCAGTGCCTG
GAGACTGCGTTTGGGGTGACGGTAGAAGACAGTGACCTTGCGCTCCCTCAGACTCTGCCGGAGATATTTGAAGCG
GCTGCCACGGGCAAGGAGATGCCGCAGGACCTGAGGAGCCCCGCGCGAACCCCGCCTTCCGAGGAGGACTCAGCA
GAGGCAGAGCGCCTCAAAACCGAAGGAAACGAGCAGATGAAAGTGGAAAACTTTGAAGCTGCCGTGCATTTCTAC
GGAAAAGCCATCGAGCTCAACCCAGCCAACGCCGTCTATTTCTGCAACAGAGCCGCAGCCTACAGCAAACTCGGC
AACTACGCAGGCGCGGTGCAGGACTGTGAGCGGGCCATCTGCATTGACCCGGCCTACAGCAAGGCCTACGGCAGG
ATGGGCCTGGCGCTCTCCAGCCTCAACAAGCACGTGGAGGCCGTGGCTTACTACAAGAAGGCTCTGGAGCTGGAC
CCCGACAACGAGACATACAAGTCCAACCTCAAGATAGCGGAGCTGAAGCTGCGGGAGGCCCCCAGCCCCACGGGA
GGCGTGGGCAGCTTCGACATCGCCGGCCTGCTGAACAACCCTGGCTTCATGAGCATGGCTTCGAACCTAATGAAC
AATCCCCAGATTCAGCAGCTCATGTCCGGCATGATTTCGGGTGGCAACAACCCCTTGGGAACTCCCGGCACCAGC
CCCTCGCAGAACGACCTGGCCAGCCTCATCCAGGCGGGCCAGCAGTTTGCCCAGCAGATGCAGCAGCAGAACCCA
GAGTTGATAGAGCAGCTCAGGAGCCAGATCCGGAGTCGGACGCCCAGCGCCAGCAACGACGACCAGCAGGAGTGA

CGCTGCCTGCTCCCGGTGTGACCGCGTCCTTCCCTGGCCGACCCGAAGGAAGCCTTCTGGTTGTCTGCCACTTCC
TCCTGTTGGACTGCCTGAGAGAGGGGAAGAGAGAGACCTCGGACCTGCATGTCAAGATGGATTTTCCCCTTTTAT
CTCTGCCCTCCTCCACTCCCTTTTTGTAACTCCCTTACAGCCCCCAGACCCTTCTTGAAACGAGAGCCAGCAAGC
TGAGCACAGACCAGCAGCGACCTCCCTTCCAGCCCCCAGAAAGCTCGGTCACTTGAGTGTTTTCTAGAATCCTGG
GGTGCTCCCGGGCCGCTCTCAGAGAAGTGGCAGGTTTCACGTTCAGCCGTGTGGCGGATCGTGTGGCTTCCAAAG
CCTTTTACAGCCCCCGCCCCCCATCCCGTGGTCTGTCTGCAGGAACTCTCCCGTCTGTGAGAAGCCTCTTTCCGA
GTCGACCTCCCGGCCACCCCGGCCCTGTGCCTGCTCGGAAGAGCTCACTGCCAGCTGCGGCCTGGGCACCGCGGG
CCATGTGTGTTTGCATGAGGAACTCTTTAGTGGCAGACACCTAAGAGACGGCTGCGGTCACCCCACGCCTCCGCG
GCTCAGGAGCCGTCCTGGGTGCATAGGACCAGTTTCTGTGACTTTTCTCCAGTTGGGCATGTTGACAGACATGTT
TCCCCTCCTCCCACCCTCATTTTCTGGTCCTCGCGACTGAGAGCCAGGGGCGACATCATGACCTTCTGTCCCGGC
CGCCTTAGCCCCGGGCACAGGGAAGGCAGCTGGGCCGTTTCTGTCTGTGTCCCATCCTGCTGTCCTTCTGTCCTG
GATGTTTCATGGGCCCGGGGCCCCCCAGGGAAGCTTACCCCTCCTGTGCTGGGTGGAGGCCACGGGACACCTCAG
GTGCCACCCACCTTGGCCCTAAAACAGCCACCAGGAAAGCAGCCGGAGAGCCGGACAGCAGGCAGCCTGTCTGGG
TTCCTGAGGCCTGGGGGTGGCAGACGAGCCCACGGCGCCGTGGTCCCAGCAGCAGGGTTGTCAGTCGGAGCATCC
TGGGGCTCCCTGGCTCCTGGCCGTCTGTGAGGTAGGCGCAGTACCGTGTATCGTAGGTAGCAGTAGGAACGGGGG
CCGCCGCGGCCCTGCAGCCGCTCATGGCGGTGAGGTGTGTGCCAAGCCCACCCGGGGTGCAGGGCGTGACGTGTG
GGGAATAAATAGGCGTTGTGACCTCT

FIGURE 297

GTGGCGGCGGTTGGGCCGAGGCAGGCGGCCTCAGTGGCCGAGGTGGCTGGACGCGTAGCAGGTGGAAGGAGGGAG
GGAGCCGCAGGCGCAGACCCACCCGCC**ATG**AAGCCCCCCGCAGCCTGTGCAGGAGACATGGCGGACGCAGCATCT
CCGTGCTCTGTGGTAAACGACCTGCGGTGGGACCTGAGTGCCCAGCAGATAGAGGAGCGCACCAGGGAGCTCATC
GAGCAGACCAAGCGCGTGTATGACCAGGTTGGCACCCAGGAGTTTGAGGACGTGTCCTACGAGAGCACGCTCAAG
GCGCTGGCCGATGTGGAGGTCACCTACACAGTTCAGAGGAATATCCTTGACTTCCCCCAGCATGTTTCCCCCTCC
AAGGACATCCGGACAGCCAGCACAGAGGCCGACAAGAAGCTCTCTGAGTTCGACGTGGAGATGAGCATGAGGGAG
GACGTGTACCAGAGGATCGTGTGGCTCCAGGAGAAAGTTCAGAAGGACTCACTGAGGCCCGAGGCTGCGCGGTAC
CTGGAGCGGCTAATCAAGCTGGGCCGGAGAAATGGGCTTCACCTCCCCAGAGAGACTCAGGAAAACATCAAACGC
ATCAAGAAGAAGCTGAGCCTTCTGTGCATCGACTTCAACAAGAACCTGAACGAGGACACGACCTTCCTGCCCTTC
ACGCTCCAGGAGCTAGGAGGGCTCCCCGAGGACTTTCTGAACTCCCTGGAGAAGATGGAGGACGGCAAGTTGAAG
GTCACCCTCAAGTACCCCCATTACTTCCCCCTCCTGAAGAAATGCCACGTGCCTGAGACCAGGAGGAAAGTGGAG
GAGGCCTTCAACTGCCGGTGCAAGGAGGAGAACTGCGCTATCCTCAAGGAGCTGGTGACGCTGCGGGCCCAGAAG
TCCCGCCTGCTGGGGTTCCACACGCACGCCGACTATGTCCTGGAGATGAACATGGCCAAGACCAGCCAGACCGTG
GCCACCTTCCTAGATGAGCTGGCGCAGAAGCTGAAGCCCCTGGGGGAGCAGGAGCGTGCGGTGATTCTGGAGCTG
AAGCGTGCGGAGTGCGAGCGCCGGGGCCTGCCCTTCGACGGCCGCATCCGTGCCTGGGACATGCGCTACTACATG
AACCAGGTGGAGGAGACGCGCTACTGCGTGGACCAGAACCTGCTCAAGGAGTACTTCCCCGTGCAGGTGGTCACG
CACGGGCTGCTGGGCATCTACCAGGAGCTCCTGGGGCTGGCCTTCCACCACGAGGAGGGCGCCAGTGCCTGGCAT
GAGGACGTGCGGCTCTACACCGCGAGGGACGCGGCCTCGGGGGAGGTGGTCGGCAAGTTCTACCTGGACCTGTAC
CCGCGGGAAGGAAAGTACGGGCACGCGGCCTGCTTTGGCCTGCAGCCCGGCTGCCTGCGGCAGGATGGGAGCCGC
CAGATCGCCATCGCGGCCATGGTGGCCAACTTCACCAAGCCCACAGCCGACGCGCCCTCGCTGCTGCAGCATGAC
GAGGTGGAGACCTACTTCCATGAGTTTGGCCACGTGATGCACCAGCTCTGCTCCCAGGCGGAGTTCGCCATGTTC
AGCGGGACCCACGTGGAGCGGGACTTTGTGGAGGCGCCGTCGCAGATGCTGGAGAACTGGGTGTGGGAGCAGGAG
CCGCTGCTGCGGATGTCGCGGCACTACCGCACAGGCAGCGCCGTGCCCCGGGAGCTCCTGGAGAAGCTCATTGAG
TCCCGGCAGGCCAACACAGGCCTCTTCAACCTGCGCCAGATCGTCCTCGCCAAGGTGGACCAGGCCCTGCACACG
CAGACGGACGCAGACCCCGCCGAGGAGTATGCGCGGCTCTGCCAGGAGATCCTCGGGGTCCCGGCCACGCCAGGA
ACCAACATGCCTGCAACCTTCGGCCATCTGGCAGGTGGCTACGACGCCCAGTACTACGGGTACCTGTGGAGCGAG
GTGTATTCCATGGACATGTTCCACACGCGCTTCAAGCAGGAGGGTGTCCTGAACAGCAAGGTTGGCATGGATTAC
AGAAGCTGCATCCTGAGACCCGGCGGTTCCGAGGATGCCAGCGCCATGCTGAGGCGCTTCCTGGGCCGTGACCCC
AAGCAGGACGCCTTCCTCCTGAGCAAGGGGCTGCAGGTCGGGGGCTGCGAGCCCGAGCCGCAGGTCTGC**TGA**GGC
CTGGCACTGCGACTGCCCAGTCTGGCCTGCGCTCCCGCCGCCCTGGTGCCTTAGCCCCCGGCACAGGATGGGGCA
GGCTCTGGCACAGTGCCTGGGACTGGCAGGGTGGCTGAGCGGCTGTCTTGCCTCTTGTCATTGTCTGTCCCCACC
CGGTCGTGGCCCACCCGGCTAGAGACGGCGTCCTCAAGGCATCTGGAGGGCTTTCGTGGCTGCCAGGGCCTGGTC
TTTGTTGCACTAACACGTCTCCTCTCTGGGAAACGTCCCTTGTCAGGAGACGGCTCTTCTTTGAAATGAGGTCAT
TAAAAGGAAAC

FIGURE 298A

AGAATTTAGCTTTTTCAGGAACTGCCATACTGGCTTTTCTTTTGTTTTTTTGTTTTGAGACAGAGTCTCACTTTG
TTGCCCAGGCTGGAGTGCAGTGGCACTCTCTCAGGTCACTGCAACCTCTGCCTCCGCAGTTCAAGTGATTCTCAT
GCCTCAGCCTCCCAAGTAGCTGGAATTACAAGTGTGCACCACCACACCTGTTTTTGTATTTTTTTTTTTTTATGA
GACGGAGTTTCGCTCTCGTTGCCCAGGCTGAAGTGCAGTGGTACAATCTAGGCTCACCACAACCTCCACCTCCCA
GGTTCAAGCGATTCTCCTGCCTCAGCCTCCCCAGTAGCTGGGATTACAGGCATGCGCCACCACACCCGGCTACTG
TTTTTGTATTTTTAATAGAGATGGATTTTTGCCATGTTGGCCAGGGTGGTGTTGAACTCATGACCTCTAGTGATC
CACCTACTTCCGCTTCCCAAAGTGCTGGGATTACAGACGTGAGCCACTGTGCCCAGCCCCATACTGGGTTTTGTA
TCAGCATGTATATTTTCCATTCCCACCAGCAGTGCAGACTGTTGCAATTTCTCCACATCCTTGGCAACACTTACT
ATTTTTTATTATGGCCTTTCTAATATGTGTGAAGTGGTATCTCATTGCGGTTTTGATATGCATTCCCCTAATGAC
CAATGACATCGAGCATCCATTCCTGTGTTTATTGACCATTTGTGTATCGATTTTTGGGGGGAAATGTAAGATCTGT
AATTTTTTTTTTTTTTTTTACTCTGTCGCCCATGCTGGAATGCAGTGCTGCAATCTCGGCTCACTGCAAGCCCTGC
CTCCCGAGTTCATGTCATTCTCCCGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCTGCCACCACACCCGG
CTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTTGATCTCCTGACCTCATG
ATCCACCCGCCCTGCCCTCCCAAAGTGATGGGATTACAGGTGTGAGCCACTGCACCCGCCCTTTTTTTTTTTTTT
TTTTTTTGAGACAGAGTCTCACTCTCATTGCCCAGCCTGGGGTGCAGTGGTGTGATCACAGCTCACTGCAGCCTT
GACCTCCCCAGGGCTCAAGTGATCTTCCCACCTCAATCTCCCAGGTAGCTGGGACTATAGGCTTAGACCACCACA
CCTGGCTAGTTTTTTTGTTTGTTTGTTTTTGGTTTTTTTTTGGTAGGTCCGGGGTCTTGTCATGTTGCTCAGGCT
GGTCTCAAACTCCTGTGTTCCAGTGATCACCTGCCTCTGGGCCTCCCAAAGTGTTGGGATTACAGGTGTGAGCCA
CCACGCCCAACCAGATCTGTAATTTTTTTTTTCTTTGAGACTGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAA
TGCCACGACCTCGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGTGATTCTCCCACCTCAGCCTCCTGAGTAAC
TGGGGTTACAGGCATGCACCACCACGCCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTTACCATGTTGG
CCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCGCCTGCCTCGGCCTCCCAAATTGCTGGGATTACAGGAGT
GAGCCACCATGCCTGGCACAGATCTGTAATTTTTTAACTAGAAAATAAAATCATTATCTTGTGCTACCTCTCAAG
TATACTCTTGTCTTTTTCAGAAGCCTTGAAGAACCAATGTACTGATGTGGGGATTAAAGAGGGTCCACTTTCCCC
AGCACAAACCTCACAAGTCACTAGTCTTTCCTCATGGACGGGGTATTTACTTTTTCAACCAGTGGCTTCTTCCCA
CTTGGAGCAAAGAGAAGCCCTGTGGATAGAGGAAAAAGGAACTCCTCAAGCCTCCTGTTCAGATTGG**ATG**ACTGT
ACTAAGAAACCAAGACTCAACTTACAAGAAGGTGGCTTTGCAGGAGGAACCAGCCAGTGGTATAAATATGATAAA
GCTTATCAGAGAAGATGGGGGATGGAAGCAGTTAGAGGACAGCCATGAAGACCCCCAGGGGCTTTTGAGCCAAAA
GGCATCCCTTCACGTAGTGGCCGTTCCTCAGGAGAAGGCTACTGCATGGCATGGATTTGGGGAAAATGGTAATCT
GAGCCCAGCCCTTGTTTTATCACAGGGAAGCTCTAAAGGGAACCACTTGTGTGGCAGCGAGTTAGATATTACAAG
CTTGGCATCCGATTCAGTCTTAAACCACCATCAGCTGGGATATGCAGATCGGAGACCTTGTGAAAGTAATGAATG
TGGAAATGCCATCCGCCAGAACAGTCACTTTATTCAACACGGGGGGAAGATGTTTGTGTATTTGGAAAATGGGCA
GTCATTGAACCACGGTATGGCCCTGACTATCCACAACAAAATCAACACGGCAGAGAAACCCTTTGAGTGCCACCA
GTGTGGGAAGGTGTTCAACCGGAGGCATTCTTTGAGCGAACATCAAAGAATTCACACGGGGGAGAAACCCTACGA
GTGTCAGGAGTGTGGGCGAGCCTTTACGCACAGCTCCACCCTCACGCGCCATCTGAGAACTCATACTGGAGAGAA
GCCCTACGGGTGCGGTGAGTGCGGGAAAGCCTTCAACAGGATCTCATCGCTGACTCAGCATCAGAGGATTCACAC
CGGGGAAAAGCCCTATAAATGTGAAGACTGTGGGAAATCCTTCTGCCAGAGCTCTTACCTGATCTTGCACAAGAG
GACACACACCGGAGAGAAGCCCTACGAATGCAGTGAATGTGGAAAGGCCTTCAGTGACCGTTCCTCTCTCAACCA
GCACGAGCGAACTCACACGGGCGAGAACCCCTATGAATGTAAGCAGTGTGGGAGAGCCTTCAGCCAGAGGTCTTC
CCTTGTGAGGCACGAGAGAACTCACACTGGAGAGAAACCCTACAGGTGTCAGGAATGTGGGAAAGCCTTCAGCCA
GAGCTCATCCCTTGTCACACATCAGAAAACTCACAGCAGCCAGAAAACCTATAAAATCATTGACTGTGGGAAAGC
GTTCTACCAGAACAGACATCTTATTGGATAT**TAG**CAATTGCACGCTGCTTTGTAAGCCACTTTTTAGTACTCTGA
CACATACATGTGGTTATCTTTTGCCCTGTTGTGATGGATAATTTGAAAAGAAGTGGGTTTATGTCACCTTCTCAC
CTTCTTATAAGAAAGCTCTGAGAATGGGCATTTTTGTATTTTGTTGTTGTTGTTGAGATGGAGTCTGCCACCCAG
GCTGGAGTCCAGTGGCGTGATCATACCTCACTGCAGCTTCAACTTCCTGGGCTCAAGTAATCCTCCCACCCCAGC
CTCCCAGGTAGCTAGTACTATAGGTGTGCACCACCACGCCCAGCAAATTTTTAAATTTATTATAGAGTGGGAGGC
AGGGTGCGGTGGCTCATGCCTATAATCCTAACACTTTAGGAGGCCGAGGCGGGTGGATCATGAGGTCAGGAGATC
GAGACCATCCTGGCTAACACAGTGAAACCCTGTCTCTACTAAAAATACAAAAAAGTAGCCGGGCGTGGTGGTGGG

FIGURE 298B

CGCCTGTAGTCCCAACTACTCAGGAGGCTGAGGCAGGAGAATGGTGTGAACCCGGGAGGTGGAGCTTGCAGTGAG
CCGAGATCGCACCACTGCACTCCAGCCTGGGAGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAATTATAG
AGTTGGGGTCTTGCTACATTGCCAAGACTGGTCTTGAACTCCTGGGGTCAAGCATCCTCCTGTCTTGGCCTCCCA
AAGTGTTGGGATTAGAAGCATGAGCCGCTGTGCCCAGCCTGACGGGGCCTTTTAGTGGGAGGAGTTGCCATTACA
CTACGTCCAGTAAGCTCCAGACTTTCGGAAAAGATTGGTGGACGGGAATGCTGTCATGGATGGGATCTTGCCAAG
AACCATCACGTGTTAATTTAGTTGCTTAAACAAAAGGTGTTCTGTTTCTTAACT

FIGURE 299A

TCTAATCAGGCCCCTGGGACGGGACGCCTCTGTCCTAGCCGTGAGTGCCCCGCCTGCCCCTAGCGGTCCCTGGCG
TCCCGGTTCCTGTCGCGCTCACCTGCGCCGGTAGCGAAGAAATCGCCCCGGGACATGGACTCAGTGGTCTTTGAG
GATGTGGCTGTGGACTTCACCCTGGAGGAGTGGGCTTTGCTGGATTCTGCTCAGAGGGACCTCTACAGAGATGTG
ATGCTGGAGACCTTTCAGAACCTGGCCTCAGTAGATGATGAAACTCAATTTAAGGCCAGTGGGTCAGTTTCTCAG
CAGGATATTTATGGAGAGAAAATACCCAAGGAATCTAAAATAGCCACGTTCACCAGAAATGTTTCCTGGGCCTCT
GTTTTAGGAAAAATTTGGGACAGTCTTAGCATCGAAGATCAAACCACAAACCAGGGGAGAAATCTCAGTAGAAAT
CATGGGTTGGAGAGACTCTGTGAAAGTAATGATCAATGTGGAGAAGCCCTCAGCCAGATTCCACATCTTAATCTG
TACAAGAAAATTCCACCTGGAGTAAAACAGTATGAATACAACACGTACGGAAAAGTCTTCATGCATCGCCGCACA
TCCCTCAAGAGTCCCATCACAGTTCACACTGGACACAAACCATATCAGTGCCAGGAATGTGGGCAGGCCTACAGT
TGTCGTTCACACCTAAGA**ATG**CATGTGAGAACCCACAATGGAGAGAGACCCTATGTGTGTAAATTATGTGGGAAA
ACCTTTCCTCGTACTTCCTCCCTCAATCGGCATGTAAGGATTCACACTGCTGAGAAAACCTACGAATGTAAGCAA
TGTGGGAAAGCCTTTATTGACTTCTCAAGTCTTACTAGTCATCTCAGAAGTCACACCGGAGAGAAGCCATATAAG
TGTAAGGAATGTGGGAAAGCTTTCAGTTATTCCTCAACGTTTCGAAGACACACAATAACACACACTGGCGAGAAG
CCATATAAATGTAAGGAATGTGCGGAAGCCTTTAGTTATTCCTCAACTTTTCGAAGACATATGATTTCACACACT
GGAGAGAAGCCACATAAATGTAAAGAATGTGGGGAGGCCTTCAGTTATTCTTCGGCTTTTCGAAGACACATGATA
ACACACACTGGAGAGAAACCCTACGAATGCAAACAATGTGGGAAAACCTTCATTTATCTCCAGTCCTTTCGAAGA
CATGAAAGGATTCACACTGGAGAGAAACCCTACGAATGCAAACAGTGTGGGAAGACCTTCATTTATCCCCAGTCC
TTTCGAAGACATGAAAGGACTCATGGTGGAGAGAAACCCTATGAATGCAACCAGTGCGGGAAAGCATTCAGTCAC
CCCTCCTCCTTTCGAGGACACATGAGGGTGCACACTGGAGAGAAACCCTATGAGTGCAAGCAATGTGGGAAAACT
TTCAATTGGCCCATATCTTTACGAAAACATATGAGAACACATACTAGAGAGAAACCCTATGAATGTAAGCAGTGT
GGGAAAGCCTTCAGCTTGTCTGCTTGCTTTCGAGAACATGTGAGAATGCACCCTGAAGACAAATCCTATGAATGC
AAGCTATGTGGGAAAGCTTTCTATTGCCACATATCCTTACAAAAACATATGAGAAGACATACCGCAGAGAAACTC
TATAAATGCAAGCAGTGTGGGAAAGCTTTCAGTTGGCCTGAACTTTTGCAACAACATGTGAGAACGCACACTGTA
GAGAAGCCCTATGAATGTAAGGAATGTGGGAAGGTCTTCAAATGGCCATCATCTTTACCAATACATATGAGACTG
CACACTGGAGAGAAACCTTATCAATGTAAGCATTGTGGGAAAGCATTCAATTGTTCCTCATCCTTAAGGCGACAT
GTGAGAATACACACTACAGAAAAACAGTATAAGTGTAATGTAGGACATCCTCCTGCAAATGAATTCATGTGCAGT
GCTTCAGAAAAGTCACACCAGGAGAGAGATCTGATCAAAGTTGTAAATATGGTGTTGCCTTTA**TGA**GTTCCTTAT
CCTGAAAGTGGACACTCAAGGAGTGTGTCTGTAGTTCATTTGCAAATAAACATTTAGTTGAAAAATAATTCTCCA
AATACTCTCAGCTATCCTACATGAATTTGAACAGGTAGTTTCTTACGATTCAGTAAATAAAACTTTCATCTTAGA
GTGTTTTGGACTCATGGATGATTTGAAGTGTATTTTTAATATGCAAGTAGGTTCAAGTTTTATTTAATTTCTTAA
ATTGTAACTGACTTAGTGTGACAGGTATTGGATATTACGTATCTATTATATTTTCCACCTTTTTTACTGGGAGTA
TTTTTATTGTTTGGCCAGAGGAGCCTTATTCCATTTTTTAAGAAGTAGTTGGCAGAATTTTGTAATTATGCAAAG
TTGTTTAAGGAGTATAGCCTCAAATGAATTGTAATTTTTAATGTTTGCCCATTGCTGTTTGTCTTTGCTTGTGAT
TGTGAATTGGACAGTAGGCTTTGACTTGTGATGTGACGGAGAAATCCAGAGTTGCAGATAGTTCTTCTGCATTGT
TGTCAGTGTGGGTAGTGTTAGGAACTTCATTTGCTGGAATGCATTTCCTTTATGGTTCCATGTCCAAATTTACCA
ATAGCAATAACTTGAATGAAATTTAGAATGAAGAAGAAGTAAGTCATCGCTGAGCTTTTGGGGTCACATTAAATG
GAGATGGACAGATGCATAGGGGCTTTGTGAACATCAACCTTCAGCTTATTTTCCAGATTCTTATTCCTGCCAATC
AAGAGTACCATCAAAAGAAACACTTAAGTGCTTGATTTCCACTGTGTCAGAGGTGTAGTCTTCCTCAGACATCTC
CATTAACTTGATATTAGGGATATTCCTGTGTGGTCAGTCACCTAGAGTCTGGATTTTTCTCAAAACCCTGCATGA
CCTCTTGACCACTGATTCAGACTGTCTTGTTTGGCAGTCTCTGAGCTTCTGATTCTCCCGTTCTGTAGATCTTAA
CATATTTGCATGGGGTCTAATTTATATAGTGAACACCTTGTTATCTTAATACTTCCAGTGGCTCTGTGATCCTGA
TTCCACCACGAAAGCCACAGTGTTGCAGTCAAAGAAGAAAAACAACACATGGGACTTTGTACCCTATTGCATTTT
TAAGTGTGCCTGCCGAGTCCTATGTGAGAACAAATACCTTCCTCATATATTAGATTTAGGGAGATTTCTGTTACT
CAGAACTAAATGCAGTTTCTTGATATAGGTTAAATTATTAGGTTTGATTATGTATCATTAAAAATAATGTGGATT
TTGTTTCAAGGAAAACCTTCTGTAGATATTTCTTAGAAATATCCTGTTTAGCTGGGCACAGTAGCTCATGCCTGT
AATCCCTGCACTTTGGGAGGCTTGAGGTCAGGAGTTTGAGACCAGCCTGGTTAACATGGTGAAACCCTGTCTCTA
CTAAAAACACAAAAATTAGCCAGGCATGGTGGTGAGTACCTGTAACCCCAGCTACTTGGGAGGCTGAGACAGGAG
AAGTGCTTGAACCTAGGAGGCGGAGGTTGCAGTGAGCCAAGATCACACCACTGCACTCCAGCCTGGGAGACGGGG

FIGURE 299B

AAAGACTCCATCACACAAGCAAG

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FIGURE 300

AGGCACTCCTCCTCACTGTCCAGTCACCTGACGTGCTTTTTCTGCGCACTCAGGTCGTGACACCCCAGGAGGTGC
CTATCGCGCCCCAAGCTCCTCACGTGCCTCCTCCCCACAGTCCAGGACGCGTCTTACTAACGCCTCACCAGAGCG
CATGCGCCCTCCTCAGGAGCAGCCTCAAAGCGCGCAGCCTCAGCCCATTGGCCTGCGGGAAGTGGAGTTCCCGAA
CAGAAGCCCCTCAGTCTCCGGAAGCCCCGCCCGGCAGACTGTTCCCAGGATGCAACACGGGCTCGCGTCTAAAAG
AGCTGTGCTTTGTTGGGGCTATCTGGGAGTTTCCGCCTTCCATGAAGTGCGCAGGCGCACTTAGGCGAGGCGGGG
CGACTCTAGGAAGTGGAGACATCAAGAGTGGTACTGGAAGTGGCGGAAGCTCTCCTCTTGCCCTCTTCAGCTTCC
GGTGTGGTGGGTCCCGGATATCGCGTGGCTGTGGCAGGTAGACAGCCCGTGCTCCAGAGGCCTTCATCTTGTGAT
GGCAGATGTACTTGAGTAGACACGACAGACGGGGAAGGACCCTGATGGTCCGAGGGACCTTCCACAGCAAGTAGA
AGGCACTGCTGTGAATATGATGGCGTCAGAGGTGACTGCAAAAAAGGACAGGGCAGCTGGGCGAGGAAGAGATAC
CAGTGATGTCCTAACTGAGCTCCCTGGGTCTGGTAGTGAGGAGCTCAGTCTTAGAATATGAGCCGTGTCAGGGGC
TACAGCATCATCACTCTTGTCCTGTCGCAGACTCAGGCTCCCTGTTCTCAGGTTCTTATGTAGACAGTGAGGGCT
CAGGGAGGCTCCCACCACCACCACCAGCACCACCACTCCATCAAAACGGCTGAAGGACCTTCCTTTAGGGTT
CGGGGGATCTCCTCCTTCCACAAGGGATGGATGTGAAGACAACTCATTCTTTGATGTTCAGATGGTTGTGGCCCT
CTGATGAGATGTGTGCACACCTTGCCAAATGCATATGTCTGTTGAGCCTGGACATTAAGTATTTCTTGATGTTCT
TCTGTGTAACAGGTGATGTCCTAGGTGCTGCAGTGAACAGAAGAGACAAAATATCCTTGTTCCCTTGAAGCTAAT
GTCGTAGGGGCCCAAAACAAAGCAAACAAACAAAAAAAAGGAATGCAAGTCAAGTACACTTTGTATGGACAGTGG
TAATTCCTAAGAAGGAAAACAAAG**ATG**GACTTAAGGGGTGCAGAGGGCCTGGACTATGTGTGTCTGTGGGATAGT
CTGTTACTACCTCTGGGACTCTCATCTCTTGAGTGTGCTTGGGTGTGTCCAACCGTTTTTCCTAGTGACAAAGTC
TGGGTAATTCTGTGGGGACATATATTGGTGTATCTGGGAGGTCCCATGTGTCTCAGTGGTGGTCCCTGTTTTCAG
GAAAGAGTGTCTGTGAATGTCCATGTGTCTCACTGCACAGCTGTGATTTTTCTGTGTCTCTGTGTTTTCCAGTCT
TTGTGTGATGAAATA**TAA**AGGCCTAGCAGGCTCAGAGTTATTAATGAATTGTACTTAAGCGTTGAGAGGCATATA
TTTATTGCACTATTAAATTCTTCCAAAATATAGTT

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FIGURE 301

CAGACTGCGAACCTTCTTGTGCACAAGAGTTACCCTACCGAAGCTAAACCCTCTGAGTGCACTAAGTGTGGCAAA
GCCTTCGAGAATCGGCAGAGATCTCACACTGGACAGAGACCGTGTAAGGAATGTGGGCAAGCCTGCAGCTGCCTC
TCCTGCCAAAGCCCTCCT**ATG**AAAACGCAGACTGTAGAGAAACCCTGTAATTGCCAGGACTCAAGGACAGCATCT
GTGACATACGTGAAAAGTCTCAGCAGTAAAAAGTCTTATGAATGTCAGAAATGTGGAAAAGCTTTCATTTGTCCC
TCATCTTTCAGGGGACATGTGAATAGTCATCATGGGCAGAAAACCCATGCATGTAAAGTATGTGGGAAGACCTTT
ATGTATTACTCCTACCTTACACGGCACGTAAGAACTCACACAGGAGAGAAACCCTATGAGTGTAAGGAGTGTGGG
AAAGCCTTCAGCTGTCCCTCATACTTTCGAGAACATGTCAGAACACACACTGGAGAGAAACCGTATGAATGTAAG
CATTGTGGAAAATCATTCAGCTGTTACTCCTCCTTTAGAGATCACGTGAGGACGCACACTGGAGAGAAACCCTGT
CAGTGTAAACATTGCGGAAAAGCGTTCACTTGTTACTCGTCTCTTCGAGAACATGGGAGAACGCACAGTGGAGAG
AAACCCTATGAATGTAAGGAATGCGGCAAAGCCTTCAGGTACCCCTCCTCTCTGCGAGCACACATGAGAATGCAC
ACCGGAGAGAAGCCCTATGTGTGCAAGCAGTGTGGGAAGGCCTTCGGATGTCCCACTTACTTTAGAAGACATGTG
AAAACACACAGCGGGGTGAAGCCCTATCAATGTAAAGAGTGTGGGAAAGCCTACAGTTTTTCCTCCTCCCTTCGA
ATCCACGTGAGGACGCATACTGGAGAGAAGCCCTTTGAGTGTAAGCATTGTGGGAAAGCCTTCAGCTGTCACTCC
TCCCTTCGAGAGCATGTGCGAACCCACAGCGGAGAGAAACCGTACGAATGTAATCAATGTGGGAAAGCCTTCAGC
CACGCTCAGTACTTTCAAAAGCATGTGAGATCACACAGTGGGGTCAAACCCTACGAATGTACTGAATGTGGGAAA
GCCTACAGTTGTTCCTCGTCCCTTCGTGTGCACGTGAGAACGCACACTGGAGAGAGACCGTATGAATGCAAGCAG
TGTGGGAAAACCTTCAGGTATCTCGCATCGCTTCAAGCACATGTGAGAACACATGCTGGAGCG**TGA**ATCTACGAA
TACAGTGGACCTGGGAGAGTGTTCAACCGTAAAACCTTGTTGTAAATGTGAGAAACGTTATTTATGTAGAGCATG
TAGGAAAACCTGGTATAGCACTTATTTTGTACCTAAAAATTCAGAGTAGGAGAGAAATCTCTTAATTATGATTAA
TATGGTATTGCCTTTACATGCCTCAGCCTTAATAGTGATTCCTTTTGTATTAATTTCTAGTGTATGTTTGTGATA
TAAACATTTAATAAATATCCTGTTTTGTACGCTTTC

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FIGURE 302

AGTTTCCTCTTGGCCTGAACTTGGCTGACCTCCGCAGCTTCCGCCCGACTCTGGCTAAAGTCTTGGAGGCTACTG
CCTTGAAGATGACCTCTAGGGACCAGCCCAGACCCAAGGGCCCCCCGAAAAGCACTTCGCCTTGTCCTGGGATCT
CGAACTCTGAGAGCTCTCCGACGCTGAATTATCAGGGCATTCTAAATCGGCTCAAGCAGTTCCCCAGGTTTTCTC
CTCATTTTGCTGCGGAGTTGGAGAGCATTTACTACTCGCTGCACAAGATCCAGCAGGATGTGGCAGAACATCACA
AGCAGATAGGAAACGTCTTACAGATTGTGGAGAGCTGCAGCCAACTCCAGGGTTTCCAGTCTGAGGAGGTCTCAC
CTGCTGAACCAGCCAGCCCTGGGACGCCCCAGCAGGTGAAGGACAAGACCCTGCAGGAGTCGAGCTTTGAGGACA
TCATGGCCACCAGGTCCTCCGACTGGCTCCGGCGGCCTTTGGGGGAGGACAATCAGCCGGAGACCCAGCTGTTCT
GGGACAAGGAGCCTTGGTTTTGGCACGACACTCTGACCGAGCAACTCTGGCGGATTTTTGCCGGCGTCCACGATG
AGAAGGCAAAGCCCAGAGACAGACAGCAGGCACCAGGCCTGGGGCAGGAAAGCAAGGCACCAGGATCCTGTGACC
CAGGAACAGACCCATGTCCTGAAGATGCCTCCACCCCCAGGCCACCTGAGGCCTCCTCCAGTCCCCCTGAGGGTT
CCCAAGACAGGAACACAAGTTGGGGTGTGGTCCAGGAGCCTCCTGGAAGAGCCTCTCGGTTTCTACAGTCCATAT
CCTGGGACCCTGAGGACTTTGAAGATGCATGGAAGAGGCCAGATGCCTTGCCCGGGCAGTCAAAGAGACTCGCCG
TCCCGTGCAAACTGGAAAAGATGCGGATCTTGGCACACGGGGAGCTCGTGCTCGCCACGGCCATCAGCAGCTTCA
CGCGGCACGTGTTCACCTGTGGCAGAAGAGGCATCAAGGTGTGGAGCCTGACTGGACAGGTGGCTGAGGACAGGT
TCCCTGAGAGCCACCTGCCTATACAGACCCCTGGGGCCTTCCTGCGCACCTGCCTGCTGTCCTCAAACAGCAGGA
GCCTGCTCACCGGTGGCTACAACCTGGCCAGCGTGAGCGTGTGGGACCTGGCGGCGCCCTCCCTGCATGTGAAGG
AGCAGTTGCCCTGTGCAGGTCTCAACTGCCAGGCCCTGGATGCCAACCTGGATGCCAACCTGGCCTTCGCCAGCT
TCACCAGTGGTGTGGTCAGGATCTGGGACCTGCGGGATCAGAGTGTGGTCAGGGACCTCAAGGGTTATCCTGATG
GAGTCAAGAGTATCGTGGTCAAGGGCTACAACATCTGGACTGGGGGTCCGGATGCCTGTCTGCGGTGCTGGGACC
AGAGGACCATCATGAAACCTCTGGAGTACCAATTCAAGTCTCAGATAATGAGCCTGTCCCACAGCCCCCAGGAGG
ACTGGGTGCTGCTGGGCATGGCCAATGGCCAGCAGTGGCTGCAAAGCACCAGCGGGAGCCAGCGGCACATGGTGG
GGCAAAAAGACAGCGTCATCCTGAGCGTCAAGTTCTCCCCCTTTGGCCAGTGGTGGGCAAGCGTTGGAATGGACG
ACTTCCTTGGCGTCTACAGCATGCCGGCGGGGACAAAAGTGTTCGAGGTGCCTGAGATGTCTCCAGTCACGTGCT
GTGACGTCTCTTCCAACAACCGCCTCGTTGTCACAGGCTCCGGGGAGCACGCCTCCGTGTACCAGATCACCTACT
GAGGGGCCTCGCTGCTGTCATCCCACTCCGGCTCCTCTTTTCATCCCCCCCCTTCCCCCCCCCCAACAAGGGGGA
CATGGTGGAGGGAAGCGGGAAGGCTCTTCTGTGGCATCGCACGATCTAGTCTGTGGTGTAGACTGGTCGCCATCA
CGTGTAATAAAGCACCCGGGAAAGGC

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FIGURE 303

CTGGGGGGCTTTTCGGATCGGCAGGATGTACCCCCAGGGAAGGCACCCGACCCCGCTCCAGTCCGGCCAGCCCTT
CAAGTTCTCGATCTTGGAGATCTGCGACCGCATCAAAGAAGAATTCCAGTTTCTTCAGGCTCAATACCACAGCCT
CAAGCTAGAATGTGAGAAGCTGGCCAGCGAGAAGACGGAAATGCAGCGACATTATGTCATGTATTATGAGATGTC
GTACGGGCTCAACATTGAAATGCATAAGCAGGCGGAGATTGTGAAGCGTCTGAGCGGTATCTGCGCTCAGATTAT
CCCCTTCCTGACCCAGGAGCATCAGCAGCAGGTGCTCCAGGCCGTAGAACGCGCCAAGCAGGTCACCGTGGGGGA
GCTGAACAGCCTCATCGGGCAGCAGCTCCAGCCGCTGTCCCACCACGCACCCCCTGTGCCCCTCACCCCCCGCCC
AGCCGGGCTGGTGGGCGGCAGTGCTACGGGGCTGCTTGCTCTGTCTGGAGCCCTGGCTGCCCAGGCTCAGCTGGC
GGCGGCTGTCAAGGAGGACCGTGCGGGCGTGGAGGCCGAGGGGTCCAGAGTGGAGAGAGCCCCGAGCAGGAGTGC
ATCTCCCTCGCCCCCTGAGAGTCTCGTGGAGGAGGAGCGACCGAGTGGCCCTGGTGGTGGCGGGAAGCAGAGAGC
AGATGAGAAGGAGCCATCAGGACCTTATGAAAGCGACGAAGACAAGAGTGATTACAATCTGGTGGTGGACGAGGA
CCAACCCTCAGAGCCCCCCAGCCCGGCTACCACCCCCTGCGGAAAGGTACCCATCTGCATTCCTGCCCGTCGGGA
CCTGGTGGACAGTCCAGCCTCCTTGGCCTCTAGCCTTGGCTCACCGCTGCCTAGAGCCAAGGAGCTCATCCTGAA
TGACCTTCCCGCCAGCACTCCTGCCTCCAAATCCTGTGACTCCTCCCCGCCCCAGGACGCTTCCACCCCCGGGCC
CAGCTCGGCCAGTCACCTCTGCCAGCTTGCTGCCAAGCCAGCACCTTCCACGGACAGCGTCGCCCTGAGGAGCCC
CCTGACTCTGTCCAGTCCCTTCACCACGTCCTTCAGCCTGGGCTCCCACAGCACTCTCAACGGAGACCTCTCCGT
GCCCAGCTCCTACGTCAGCCTCCACCTGTCCCCCCAGGTCAGCAGCTCTGTGGTGTACGGACGCTCCCCCGTGAT
GGCATTTGAGTCTCATCCCCATCTCCGAGGGTCATCCGTCTCTTCCTCCCTACCCAGCATCCCTGGGGGAAAGCC
GGCCTACTCCTTCCACGTGTCTGCGGACGGGCAGATGCAGCCGGTTCCCTTCCCCTCGGATGCACTGGTAGGCGC
GGGCATCCCGCGGCACGCCCGGCAGCTGCACACGCTGGCCCATGGCGAGGTGGTCTGCGCGGTCACCATCAGCGG
CTCCACACAGCATGTGTACACGGGCGGCAAGGGCTGTGTGAAGGTGTGGGACGTGGGCCAGCCTGGGGCCAAGAC
GCCCGTGGCCCAGCTCGACTGCCTGAACCGAGACAACTACATTCGTTCCTGCAAGTTGCTGCCGGATGGCCGGAG
TCTGATCGTGGGCGGTGAGGCCAGCACCTTGTCCATTTGGGACCTGGCGGCGCCCACCCCCCGTATCAAGGCCGA
GCTGACTTCCTCAGCCCCAGCCTGCTACGCCCTGGCCGTCAGCCCCGACGCCAAGGTTTGCTTCTCCTGCTGCAG
CGATGGCAACATTGTGGTCTGGGACCTGCAGAATCAGACTATGGTCAGGCAGTTCCAGGGCCACACGGACGGCGC
CAGCTGCATTGATATTTCCGATTACGGCACTCGGCTCTGGACAGGGGGCCTGGACAACACGGTGCGCTGCTGGGA
CCTGCGGGAGGGCCGCCAGCTGCAGCAGCATGACTTCAGCTCCCAGATTTTCTCCCTGGGCCACTGCCCTAACCA
GGACTGGCTGGCGGTCGGAATGGAGAGTAGCAACGTGGAGATCCTGCACGTCCGCAAGCCGGAGAAATACCAGCT
GCACCTCCACGAGAGCTGCGTGCTGTCCCTGAAGTTTGCCTCCTGCGGACGGTGGTTTGTGAGCACCGGGAAGGA
CAACCTGCTCAACGCCTGGAGGACGCCGTACGGGGCCAGCATTTTCCAGTCCAAGGAGTCGTCCTCAGTCCTGAG
TTGTGACATCTCCAGAAATAACAAATACATCGTGACAGGCTCGGGGGACAAGAAGGCCACCGTGTATGAGGTGGT
CTACTGAGACATGACCCCCC

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FIGURE 304

GCAAGGTCACGTCCTGTCCCCACCTTTCGCCCCTCACCCTAGCTCCCCCAACGCCAAAGACAAGGTTAAGAAAGT
GATATCGCGAAATAGTTTTTTAAAGCATTTTATTGCATTTTATGACTTGGAGTTTATGTGAAACCTCAACGGTAT
TAGCCGAACAGCCTGCCGCACCTTCCGGGAGTTCCAGAGTGGGCCTACAACTCCCACAGGGCTCCGCGAGCGCCG
GACGGACGGACTACAATTCCCGACAGGCAGCGCGGCTGGCGGGGCGGTTCGCCGCGGTGCCCACAGGACCTCAGG
GCGAGTGCGGGCTGCCCCGCGCGGCGCCCGCAGGACCCCGGCGGCTACCCATGCCGAGGTGAGTCCGCGGGAGCC
GCCGCCGCCGCCGTCCCGTCCCAGCTGCCGCCCCGCGCGGCCCCGCCGCCGGCCAGGATGCTGGAGGAAGCGGGC
GAGGTGCTGGAGAAC**ATG**CTGAAGGCGTCTTGTCTGCCGCTCGGCTTCATCGTCTTCCTGCCCGCTGTGCTGCTG
CTGGTGGCGCCGCCGCTGCCTGCCGCCGACGCCGCGCACGAGTTCACCGTGTACCGCATGCAGCAGTACGACCTG
CAGGGCCAGCCCTACGGCACACGGAATGCAGTGCTGAACACGGAGGCGCGCACGATGGCGGCGGAGGTGCTGAGC
CGCCGCTGCGTGCTCATGCGGCTACTGGACTTCTCCTACGAGCAGTACCAGAAGGCCCTGCGGCAGTCGGCGGGC
GCCGTGGTCATCATCCTGCCCAGGGCCATGGCCGCCGTGCCCCAGGACGTCGTCCGGCAATTCATGGAGATCGAG
CCGGAGATGCTGGCCATGGAGACCGCCGTCCCCGTGTACTTTGCCGTGGAGGACGAGGCCCTGCTGTCTATCTAC
AAGCAGACCCAGGCTGCCTCCGCCTCCCAGGGCTCCGCCTCTGCTGCTGAAGTACTGCTGCGCACGGCCACTGCC
AACGGCTTCCAGATGGTCACCAGCGGGGTACAGAGCAAGGCCGTGAGTGACTGGCTGATTGCCAGCGTGGAGGGG
CGGCTGACGGGGCTGGGCGGAGAGGACCTTCCCACCATCGTCATCGTGGCCCACTACGACGCCTTTGGAGTGGCC
CCCTGGCTGTCGCTGGGCGCGGACTCCAACGGGAGCGGCGTCTCTGTGCTGCTGGAGCTGGCACGCCTCTTCTCC
CGGCTCTACACCTACAAGCGCACGCACGCCGCCTACAACCTCCTGTTCTTTGCGTCTGGAGGAGGCAAGTTTAAC
TACCAGGGAACCAAGCGCTGGCTGGAAGACAACCTGGACCACACAGACTCCAGCCTGCTTCAGGACAATGTGGCC
TTCGTGCTGTGCCTGGACACCGTGGGCCGGGGCAGCAGCCTGCACCTGCACGTGTCCAAGCCGCCTCGGGAGGGC
ACCCTGCAGCACGCCTTCCTGCGGGAGCTGGAGACGGTGGCCGCGCACCAGTTCCCTGAGGTACGGTTCTCCATG
GTGCACAAGCGGATCAACCTGGCGGAGGACGTGCTGGCCTGGGAGCACGAGCGCTTCGCCATCCGCCGACTGCCC
GCCTTCACGCTGTCCCACCTGGAGAGCCACCGTGACGGCCAGCGCAGCAGCATCATGGACGTGCGGTCCCGGGTG
GATTCTAAGACCCTGACCCGTAACACGAGGATCATTGCAGAGGCCCTGACTCGAGTCATCTACAACCTGACAGAG
AAGGGGACACCCCCAGACATGCCGGTGTTCACAGAGCAGATGCAGATCCAGCAGGAGCAGCTGGACTCGGTGATG
GACTGGCTCACCAACCAGCCGCGGGCCGCGCAGCTGGTGGACAAGGACAGCACCTTCCTCAGCACGCTGGAGCAC
CACCTGAGCCGCTACCTGAAGGACGTGAAGCAGCACCACGTCAAGGCTGACAAGCGGGACCCAGAGTTTGTCTTC
TACGACCAGCTGAAGCAAGTGATGAATGCGTACAGAGTCAAGCCGGCCGTCTTTGACCTGCTCCTGGCTGTTGGC
ATTGCTGCCTACCTCGGCATGGCCTACGTGGCTGTCCAGCACTTCAGCCTCCTCTACAAGACCGTCCAGAGGCTG
CTCGTGAAGGCCAAGACACAG**TGA**CACAGCCACCCCCACAGCCGGAGCCCCCGCCGCTCCACAGTCCCTGGGGCC
GAGCACGAGTCGTCATGATGGATGCACTGACTGACCGTCTGGGGCTCAGGCTGGTGTGGGATGCAGCCGGCCGAT
GAGAAAATAAAGCCATATTGAATGATC

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FIGURE 305

AGTCAGCCCCCGGGGGAGGCCATGAACGCCACGGGGACCCCGGTGGCCCCCGAGTCCTGCCAACAGCTGGCGGCC
GGCGGGCACAGCCGGCTCATTGTTCTGCACTACAACCACTCGGGCCGGCTGGCCGGGCGCGGGGGGCCGGAGGAT
GGCGGCCTGGGGGCCCTGCGGGGGCTGTCGGTGGCCGCCAGCTGCCTGGTGGTGCTGGAGAACTTGCTGGTGCTG
GCGGCCATCACCAGCCACATGCGGTCGCGACGCTGGGTCTACTATTGCCTGGTGAACATCACGCTGAGTGACCTG
CTCACGGGCGCGGCCTACCTGGCCAACGTGCTGCTGTCGGGGGCCCGCACCTTCCGTCTGGCGCCCGCCCAGTGG
TTCCTACGGGAGGGCCTGCTCTTCACCGCCCTGGCCGCCTCCACCTTCAGCCTGCTCTTCACTGCAGGGGAGCGC
TTTGCCACCATGGTGCGGCCGGTGGCCGAGAGCGGGGCCACCAAGACCAGCCGCGTCTACGGCTTCATCGGCCTC
TGCTGGCTGCTGGCCGCGCTGCTGGGGATGCTGCCTTTGCTGGGCTGGAACTGCCTGTGCGCCTTTGACCGCTGC
TCCAGCCTTCTGCCCCTCTACTCCAAGCGCTACATCCTCTTCTGCCTGGTGATCTTCGCCGGCGTCCTGGCCACC
ATCATGGGCCTCTATGGGGCCATCTTCCGCCTGGTGCAGGCCAGCGGGCAGAAGGCCCCACGCCCAGCGGCCCGC
CGCAAGGCCCGCCGCCTGCTGAAGACGGTGCTGATGATCCTGCTGGCCTTCCTGGTGTGCTGGGGCCCACTCTTC
GGGCTGCTGCTGGCCGACGTCTTTGGCTCCAACCTCTGGGCCCAGGAGTACCTGCGGGGCATGGACTGGATCCTG
GCCCTGGCCGTCCTCAACTCGGCGGTCAACCCCATCATCTACTCCTTCCGCAGCAGGGAGGTGTGCAGAGCCGTG
CTCAGCTTCCTCTGCTGCGGGTGTCTCCGGCTGGGCATGCGAGGGCCCGGGGACTGCCTGGCCCGGGCCGTCGAG
GCTCACTCCGGAGCTTCCACCACCGACAGCTCTCTGAGGCCAAGGGACAGCTTTCGCGGCTCCCGCTCGCTCAGC
TTTCGGATGCGGGAGCCCCTGTCCAGCATCTCCAGCGTGCGGAGCATCTGAAGTTGCAGTCTTGCGTGTGGATGG
TGCAGCCACCGGGTGCGTGCCAGGCAGGCCCTCCTGGGGTACAGGAAGCTGTGTGCACGCAGCCTCGCCTGTATG
GGGAGCAGGGAACGGGACAGGCCCCCATGGTCTTCCCGGTGGCCTCTCGGGGCTTCTGACGCCAAATGGGCTTCC
CATGGTCACCCTGGACAAGGAGGCAACCACCCCACCTCCCCGTAGGAGCAGAGAGCACCCTGGTGTGGGGGCGAG
TGGGTTCCCCACAACCCCGCTTCTGTGTGATTCTGGGGAAGTCCCGGCCCCTCTCTGGGCCTCAGTAGGGCTCCC
AGGCTGCAAGGGGTGGACTGTGGGATGCATGCCCTGGCAACATTGAAGTTCGATCATGGTA

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FIGURE 306

TGTTCCCAGCACTCAAGCCTTGCCACCGCCGAGCCGGGCTTCCTGGGTGTTTCAGGCAAGGAAGTCTAGGTCCCT
GGGGGGTGACCCCCAAGGAAAAGGCAGCCTCCCTGCGCACCCGGTTGCCCGGAGCCCTCTCCAGGGCCGGCTGGG
CTGGGGGTTGCCCTGGCCAGCAGGGGCCCGGGGGCGATGCCACCCGGTGCCGACTGAGGCCACCGCACC**ATG**GCC
CGCTCGCTGACCTGGCGCTGCTGCCCCTGGTGCCTGACGGAGGATGAGAAGGCCGCCGCCCGGGTGGACCAGGAG
ATCAACAGGATCCTCTTGGAGCAGAAGAAGCAGGACCGCGGGGAGCTGAAGCTGCTGCTTTTGGGCCCAGGCGAG
AGCGGGAAGAGCACCTTCATCAAGCAGATGCGGATCATCCACGGCGCCGGCTACTCGGAGGAGGAGCGCAAGGGC
TTCCGGCCCCTGGTCTACCAGAACATCTTCGTGTCCATGCGGGCCATGATCGAGGCCATGGAGCGGCTGCAGATT
CCATTCAGCAGGCCCGAGAGCAAGCACCACGCTAGCCTGGTCATGAGCCAGGACCCCTATAAAGTGACCACGTTT
GAGAAGCGCTACGCTGCGGCCATGCAGTGGCTGTGGAGGGATGCCGGCATCCGGGCCTACTATGAGCGTCGGCGG
GAATTCCACCTGCTCGATTCAGCCGTGTACTACCTGTCCCACCTGGAGCGCATCACCGAGGAGGGCTACGTCCCC
ACAGCTCAGGACGTGCTCCGCAGCCGCATGCCCACCACTGGCATCAACGAGTACTGCTTCTCCGTGCAGAAAACC
AACCTGCGGATCGTGGACGTCGGGGGCCAGAAGTCAGAGCGTAAGAAATGGATCCATTGTTTCGAGAACGTGATC
GCCCTCATCTACCTGGCCTCACTGAGTGAATACGACCAGTGCCTGGAGGAGAACAACCAGGAGAACCGCATGAAG
GAGAGCCTCGCATTGTTTGGGACTATCCTGGAACTACCCTGGTTCAAAAGCACATCCGTCATCCTCTTTCTCAAC
AAAACCGACATCCTGGAGGAGAAAATCCCCACCTCCCACCTGGCTACCTATTTCCCCAGTTTCCAGGGCCCTAAG
CAGGATGCTGAGGCAGCCAAGAGGTTCATCCTGGACATGTACACGAGGATGTACACCGGGTGCGTGGACGGCCCC
GAGGGCAGCAAGAAGGGCGCACGATCCCGACGCCTCTTCAGCCACTACACATGTGCCACAGACACACAGAACATC
CGCAAGGTCTTCAAGGACGTGCGGGACTCGGTGCTCGCCCGCTACCTGGACGAGATCAACCTGCTG**TGA**CCCAGG
CCCCACCTGGGGCAGGCGGCACCGGCGGGCGGGTGGGAGGTGGGAGTGGCTGCAGGGACCCCTAGTGTCCCTGGT
CTATCTCTCCAGCCTCGGCCCACACGCAAGGGAGTCGGGGGACGGACGGCCCGCTGCTGGCCGCTCTCTTCTCTG
CCTCTCACCAGGACAGCCGCCCCCCAGGGTACTCCTGCCCTTGCTTGACTCAGTTTCCCTCCTTTGAAAGGGAAG
GAGCAAAACGGCCATTTGGGATGCCAGGGTGGATGAAAAGGTGAAGAAATCAGGGGATTGAGGACTTGGGTGGGT
GGGCATCTCTCAGGAGCCCCATCTCCGGGCGTGTCACCTCCTGGGCAGGGTTCTGGGACCCTCTGTGGGTGACGC
ACACCCTGGGATGGGGCTAGTAGAGCCTTCAGGCGCCTTCGGGCGTGGACTCTGGCGCACTCTAGTGGACAGGAG
AAGGAACGCCTTCCAGGAACCTGTGGACTAGGGGTGCAGGGACTTCCCTTTGCAAGGGGTAACAGACCGCTGGAA
AACACTGTCACTTTCAGAGCTCGGTGGCTCACAGCGTGTCCTGCCCCGGTTTGCGGACGAGAGAAATCGCGGCCC
ACAAGCATCCCCCCATCCCTTGCAGGCTGGGGGCTGGGCATGCTGCATCTTAACCTTTTGTATTTATTCCCTCAC
CTTCTGCAGGGCTCCGTGCGGGCTGAAATTAAAGATTTCTTAG

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FIGURE 307

AGCCGATGTCAGTCTGGTGTGGCAGGAGGGGCTTGGGTGGGAGCCGTCCTGGGATTGCAGATTGGGCCTTGGGGC
GCCAGGTGGCTGAGTCCTGGCGCTGTGTCCTTTCAGGATGGTGGATGTGGGGGGCCAGCGGTCGGAGCGGAGGAA
GTGGATCCACTGCTTTGAGAACGTGACATCCATCATGTTTCTCGTCGCCCTCAGCGAATACGACCAAGTCCTGGT
GGAGTCGGACAACGAGAACCGGATGGAGGAGAGCAAAGCCCTGTTCCGGACCATCATCACCTACCCCTGGTTCCA
GAACTCCTCCGTCATCCTCTTCCTCAACAAGAAGGACCTGCTGGAGGACAAGATCCTGTACTCGCACCTGGTGGA
CTACTTCCCCGAGTTCGATGGTCCCCAGCGGGACGCCCAGGCGGCGCGGGAGTTCATCCTGAAGATGTTCGTGGA
CCTGAACCCCGACAGCGACAAGATCATCTACTCACACTTCACGTGTGCCACCGACACGGAGAACATCCGCTTCGT
GTTCGCGGCCGTGAAGGACACCATCCTGCAGCTCAACCTCAAGGAGTACAACCTGGTCTGAGCGCCCAGGCCCAG
GGAGACGGGATGGAGACACGGGGCAGGACCTTCCTTCCACGGAGCCTGCGGCTGCCGGGCGGGTGGCGCTGCCGA
GTCCGGGCCGGGGCCTCTGCCCGCGGGAGGAGATTTTTTTTTTCATATTTTTAACAAATGGTTTTTATTTCACA
GTTATCAGGGGATGTACATCTCTCCCTCCGTACACTTCGCGCACCTTCTCACCTTTTGTCAACGGCAAAGGCAGC
CTTTTTCTGGCCTTGACTTATGGCTCGCTTTTTTCTAAAAAAAAAAAAAAAAAGAAAGAAAGAAAAAAAGCAACGA
AACATAAAACACACAAGCGCCCCGTGCCCCCAGTGACTCTGGGCCTCACAGAGCCCCCGCCAGCCAGCATGGGGC
CCCGCCCTGCAGCCAGTCACGCGCCCCCACACCGCAGCCCCCTGTGGCTGTCCTTCCAACCCCACGTGCTTTTTC
TTTCTCCTGCCCGCTTCTTTTCTTCATCACAAAAGGCGTGGAGACTCGGAGACGGACGTTTTTCCCCTTTTTTAA
GTTATTGACGCCCAGCGCGCCTCGCCTCTTCACCCATCAACGCTGTGCTTTGCCCACTGGACTCCTGAAGAGGGG
GTGGGGGGCTCCCTCGGTCGCCCACCCTGGGAAGTGCCTAACCTTTTATTTTATTTTATTTTTTTGAGGAAAAAG
AACGCCTGACTCACAGGTTGAAGAAACACCCTGGGCCCTCTCTCATGGCCGGGTTCCCCGTCCCTCTGCAGAGGC
TGGGAAGGGTCCCCGGGCTGGAGCCACGGGGGCTTCTCTGGGCTGTGCCTCCGGGGCCAACACTGGCTGCTTGGG
GCTGCCCGGGGACTCCAGAGGGCTGCACGGCCACCCTGCCCTGGCTAGAGCGCACCCCACCGGAGCCCACGTGGG
CTGGGCGGCTGGAGGGATGGTCCCCCGGTGACACTGGGAGAAAGGCCACTTGGATGGGGGCGTTTCTGTTTTGTT
CCGCTTTGTGATGTCACCAATTTGGAAACAGCGAGGGTGGGTGGGGACTTTTACAGAATATTCTCAGGTGTGTAC
CCGAGAGGCAGAGAGAGGGACGTGGCCGGCAGCTCTGTGCGTGGCCTTGTCCCAAGCACTTGCGCCCGCCCCCGA
GCGCCGCCCCCGGGGAGCGGGAAGCCAGCACTCGCACTTTGGCCAGGGGCGCGTGGAAGGTGGTGGCAGGCACCG
GCCTGGGCAGCTTCCAGGCCTGGCTGGCCACGACCACGGCCCGAGGGGGAGCCCGCCAGGCCACGCCGCACTGAG
CCACAGCCCCGGGGGCCGCCTCCCGGGGCCCCTTGAGGCACTGAGGCACCGAGACTGGTTCTCCCCGAGAGACTC
GGAAGGTGGGGAACGAGGGGACTGTGTTTGGGGAGGTGGCTTTTTCGTCTGCTGTTGACTGAACACTACAGCGCC
CTGTGGTTCCGGGCTTCGCACAGCTGTCCCAGGG**ATG**GATCGCCTGTGCTGCCTTCGCCCGCCGCCACACCGGGA
CCCTGCACGGCTGCTTCTGGCCTCGACAGATGACAAAAGAAACAGCCCCAAAATACGACCACTCCAACCAGCAGT
TCCCGCCTGCCTGCCCGCCACTGTCAGGCCTGCCCTGGCCTCCTCGTCCGCAGGGCTGTCTGCTGGCTTCTGGGG
GCAGAAGAGCGGGGAGCCCCGTGGAAGGGTCAGGGGAGACCAGGTCAGGGCAGCTACATTTCTGGTGATCAGCCC
CATGGGGAGACGGGGCTGGCGGGATACCCCCCCCCCGGCTTCCCCACACCACTTCTGTCTCACCCGGAAGCGTCC
TTTTTTTGTGCCAGGTGTCTACCTAAGAGGGTTGGTGCCAGAAGCCCCCCATGGCGAGTGCTGGGGCCCGGCGGT
GCCCTGGGGGAGCAGATGGGGCCACCCCTGGCAGGGCCGCTACAACCTTTTCCAGCAGCGGAGCCCTCTGGGGGG
CCTGTGCTTGTGGCATCTC**TGA**GGGCCTAGATTGCACAAGGTGACCTGGCCGTGGCCTGAGGGTGGAGTCGCCCA
GCACGCAGGCCGGGGCGCTGCGGGGCTAAGTATTAGGCCTTCCCAGGGAGGGGGCGTGCCAAGCATCCCAGAGCC
GGGCTGGGACCGCCAAAACGTCGTGGCCTGGATCCTCTGGGTCTGAGTGCCTGATCCCCTGCCCCCCAAAAAAGC
AGAGGTAGGTGTTGCAGGCCCAGGGCAGGGGTGCCTGCCCCAGGAGAGTCCCAGGCAGTGGTTCTCGTGCCAGTG
GCACCCAGGGGCAAGGACAGCCAACCCCCACCCTTGCCACGTGTGGGGCCACGTGGGCATGTGGGGTGTGTGTTT
TTACCTTGGTGAATCTCACCTGCCAACGATTTCTCGTGAGTGCCGACCACCTTCTCCGACCATGTTACGCCCGGG
CGGCAGCAGCCCCCGGCCACTGCAAACCCATGCCCTGGGTCCCCCGGCTCCCCCAGGGAGGCATCCCCGTGCCAA
TGTCCCCCAGTGGTGGCAGCAGATCCTGTGGCCGGCCTGGCGGACGGGACCCAGTGATACTTGTATATTACACAG
TCCTGATTTCAGACAATTTCAACCTTAATCTATTTAAAAAAGAATATTCTATAC

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FIGURE 308

GGCCGCCCGGCGCCCCCAGCAGCCCGAGCCGGGGCGCACAGCCGGGGCGCAGCCCGCGCCCCCCGCCGCGATTGA
CATGATGTTTCCACAAAGCAGGCATTCGGGCTCCTCGCACCTACCCCAGCAACTCAAATTCACCACCTCGGACTC
CTGCGACCGCATCAAAGACGAATTTCAGCTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTT
GGCCAGTGAGAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCCTACGGCTTGAACATCGAGAT
GCACAAACAGGCTGAGATCGTCAAAAGGCTGAACGGGATTTGTGCCCAGGTCCTGCCCTACCTCTCCCAAGAGCA
CCAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTCACCGCTCCCGAGCTGAACTCTATCATCCGACA
GCAGCTCCAAGCCCACCAGCTGTCCCAGCTGCAGGCCCTGGCCCTGCCCTTGACCCCACTACCCGTGGGGCTGCA
GCCGCCTTCGCTGCCGGCGGTCAGCGCAGGCACCGGCCTCCTCTCGCTGTCCGCGCTGGGTTCCCAGGCCCACCT
CTCCAAGGAAGACAAGAACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCGAGAAGTCGGATTAGCAGGG
GGCCGGGACAGGGAGGTTGGGAGGGGGGACAGAGGGGAGACAGAGGCACGGAGAGAAAGGAATGTTTAGCACAAG
ACACAGCGGAGCTCGGGATTGGCTAAACTCCCATAGTATTTATGGTGGCCGCCGGCGGGGGCCCCAGCCCAGCTT
GCAGGCCACCTCTAGCTTTCTTCCTACCCCATTCCCGGCTTCCCTCCTCCTCCCCTGCAGCCTGGTTAGGTGGAT
ACCTGCCCTGACATGTGAGGCAAGCTAAGGCCTGGAGGGTCAGATGGGAGACCAGGTCCCAAGGGAGCAAGACCT
CGCGAAGCGCAGCAGCCCCGGCCCTTCCCCCGTTTTGAACATGTGTAACCGACAGTCTGCCTGGGCCACAGCCCT
CTCACCCTGGTACTGCATGCACGCAATGCTAGCTGCCCCTTTCCCGTCCTGGGCACCCCGAGTCTCCCCCGACCC
CGGGTCCCAGGTATGCTCCCACCTCCACCTGCCCCACTCACCACCTCTGCTAGTTCCAGACACCTCCACGCCCAC
CTGGTCCTCTCCCATCGCCCACAAAAGGGGGGGCACGAGGGACGAGCTTAGCTGAGCTGGGAGGAGCAGGGTGAG
GGTGGGCGACCCAGGATTCCCCCTCCCCTTCCCAAATAAAGATGAGGGTACT

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FIGURE 309

TCCCCCGGGGGGGTTCGCCTCCTCTCCTTGGGGGCTTTATGTCTTTCTCTCCCCCACCTGCAGGTCCCGAGGGCT
GTAACCTGTTTATCTACCACCTCCCCCAGGAGTTTGGAGACACGGAGCTGACGCAGATGTTCCTACCCTTCGGCA
ATATCATTTCCTCCAAGGTGTTTATGGATCGAGCTACCAACCAGAGCAAGTGTTTCGGCTTCGTGAGCTTTGATA
ACCCGGCCAGCGCCCAGGCAGCCATCCAGGCCATGAACGGCTTCCAGATCGGCATGAAGAGGCTCAAAGTCCAGC
TGAAGCGGCCCAAAGACCCGGGACACCCCTACTGACCGCGCCCACAGCCGCCCTGAGGCTGTAGGCATGGCCCAG
GTGAGGGGCCTTCCCATCCCAGGAGGGTTTTCTGCTTCCAACCGATCCAGGACTTACCCATAAATTCCAACCGTT
CTTTGGACACCAGCCCTTTCCTCCCCTCTTCTCCCCTTGCCCTGCCCCTCTACTGGAGGCCACCTGGAGTGGCGA
GGGGCCTTTGGGGTCTGTCCTGGGGCAGGGGCGGGGGTGGGGGAGGCTCCTGAATCGTGGGCAGAAGTGTTCACA
CGCCCCCCCTGCTTTGGGAAACGCTCTCGCTTCTTCCCCACAAAACTTGGTGACTTCCCCAAACTAAATCACACC
TTTTCCTATATATATATATATGCATATATATATAGATCTATAGACAGTATATATATATTTTGAGTACGGATCATG
GGACCAAACTTTTCCGACTTCCTTCCATCCGAGTAGAGTGACCCTGGGCCGGTCACTCAGCGGGGGACACAGGAA
GGGCTGAGGTTGGCGGGACCCCGCGCAACACATACC

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FIGURE 310

GTTTTCCCTGCTGAAAACCCAACACCAGACGGAAATGCCAAGTGCCCACCCCAGACCCCAAACCCTAAGGTTGGA
CCCCAACTCGGAACCAGGAGTGGAGCGTGGAAGGTGGGGACAGTGCTCAGGGCCCAGTCCAGTTGGCACTGACAG
CTTCCAGTGTCCCCGCTCCATTTCCACTAGTTCCCCTGGGACAAGCGGCCCCTCACTGGGTGTCATTCCTACCCA
ATGAGTTGATGGAAAAGTGGGATTCGTGCCCCACCCACCATCATGCAAGAAAAACAAGCAAAACGAAACCCAGAC
TGTAGTTTGCCATCAGGGCAAACCACTTTCTCAACATTTTTTTGTGGGGGGATGAACAGTAAACCTTGTGGGGCC
ACTGTGGAAACTTAACCGTGGGTCTCAAACCTTGATGAGCCTCATCTGTAAAATGGGTTCAAGAAAGTCATCTCC
CCAGAGACGGCGGAAACGGTCCACCTAGGGAACAGAGTGGGGCATCTTTTCGCAGCCGAGCCCAGAACCCATCAC
CTAAAGAGTTCTGGATGATTCGTTTTGATTTTTTTTTTTTTTAAATCACCATCGCTGTCGTCATCAGAGTCTCGC
CTAGGGCCTGGCACAGAGTAGACGCTCAGTTAGAAGCTGTCTGGCCTTTTCACCTTCTCCCGGGTCAGCACACAC
AGATTTGGGAGTATTTACCTGCACAGAACGCACCTTCAGGAACTGCCAACCAGAAGCAAAATCCAAAGCTGCTCT
CTGCGATCCCTTCACTTTTAACTCTCAGTCTGCACTTTTTTTTTTTAACTGAGCATCTATTATGTGCTAGGCACT
GTTCCAGTGCTCGGGGACGCAGCTGTGAATGAACAGAAACGGGGGATGGAGGACAGGGGAGAAACCCCCTTCACG
GGCCTTAGATGGCAGGGGGTAGGGAAGGAGAGACAGAAAATAAACAGAAATATCTGTCCCCAGCTGCCAGAGGAG
GAGGAAATGGGCTTGGTGATGGTGACATTAAGTTCTTTGAAAGCTGGGTTTGTTGGCCTCTGAACTCTGGCCTTT
GTGGGATCTGTTCTTTTGGAAAAG**ATG**GGAGCCCCTGTGTTCCTAGATCCCAGCCTGGCCGGGTGGAGTAGGGTG
GGGAGGTGGTGTCCACCTGTGTGGCCCCGTTCTCACTCCCTAACGCCCGTCCCTTCTCCCCCAGGTGAGGGGCCT
TCCCATCCCAGGAGGGTTTTCTGCTTCCAACCGATCCAGGACTTACCCATAAATTCCAACCGTTCTTTGGACACC
AGCCCTTTCCTCCCCTCTTCTCCCCTTGCCCTGCCCCTCTACTGGAGGCCACCTGGAGTGGCGAGGGGCCTTTGG
GGTCTGTCCTGGGGCAGGGGCGGGGGTGGGGGAGGCTCC**TGA**ATCGTGGGCAGAAGTGTTCACACGCCCCCCCTG
CTTTGGGAAACGCTCTCGCTTCTTCCCCACAAAACTTGGTGACTTCCCCAAACTAAATCACACCTTTTCCTATAT
ATATATATATGCATATATATATAGATCTATAGACAGTATATATATATTTTGAGTACGGATCATGGGACCAAACTT
TTCCGACTTCCTTCCATCCGAGTAGAGTGACCCTGGGCCGGTCACTCAGCGGGGGACACAGGAAGGGCTGAGGTT
GGCGGGACCCCGCGCAACACATACCAGGTGCCCCACCCCCACCCCCACCACCTCCTGGCTGGCACATCCCACCAG
GAACCCGCCAACACAACATACCTCCAGGACTTTTGGCACCCCCCACCACCAATTCTCCAGGGCCGTTGGGCTCTG
CCAGCTTCAGTGTCCCTGGTCCCAGCTGCAGCCTCCAGACCCCACCTCGCCCCTTCGTCCCAGAGCCCTGCCCTC
CGGGATGGATATAGGTACAACAGAGACGCTCTGGCCTGCCTCAGCCCTTCTCTGCTCCCCTGCCCGAGTCATAGC
CTTACTCATGTGACCAATAGCCCTTAGCTTTCCGTCGGAGGGGGGGGGCGGACAGGGTTGGGGGGAGCCCCCCTG
CCCCTCACCACCCCCTCCCAAGGCCAGGCAGCCATTGTCCCTGCCTTCGAATCACCAGCCTCGAATTTAAGGTCT
TGTAACCAGGATTGCCAAGCGTAGCGGAAGACCCTACCCGGACCGGCCAAGCACCCCTTTAACTGGAGACGAACT
TGATAATGACCTTCATACCTCTACAGAGATTTTTTTTTTTTTCCGGTCTTTCTGAGCAGGTACAAAGAAGAAAAG
AGAAGAAAAAGATGGGGGGAAAAAATCAAACCACAATGGATTTTTGTTTCCTAGTTGGGAGTGGGGTGGGGTGGG
GTGTCTTTGTGAGGGTGCCTCTGTACAGCTGCCCAATCCGCGACACCCACGTCAAAGCACAGCATCAAGTTCGTT
TGGACATCCGGCAAGGCCTCTTACCAAATGAGGCGCCAGATAACTTAATAAGCTCAAAAGAAAAAAACATTTAAA
AAGAAAGAAAAAAAAAAAAAAAAAAAACCAAGCATTTCCTTTTCTTTCTACCAAAATGTGTTGACTGACCCGGAGG
GGGGGCGGTAGGGTGGGGGAAACCACACAGAAAAAAAAAAA

FIGURE 311

AATGACTCAGTAAGTTCAGCGCGCCCGCTCCGGCCGGCCCTGCGCCTCCCGCCGCGCCCGGGATGTATTCGTCCC
CGCTCTGCCTCACCCAGGATGAGTTCCACCCGTTCATCGAGGCCCTGCTGCCTCACGTCCGCGCCTTCGCCTACA
CCTGGTTCAACCTGCAGGCGCGGAAGCGCAAGTACTTCAAGAAGCACGAGAAGCGGATGTCGAAGGACGAGGAGC
GTGCGGTCAAGGACGAGCTGCTGGGCGAGAAGCCCGAGGTCAAGCAGAAGTGGGCGTCGCGGCTGCTGGCCAAGC
TGCGCAAGGACATCCGGCCCGAGTGCCGCGAGGACTTCGTGCTGAGCATCACCGGCAAGAAGGCGCCGGGCTGCG
TGCTCTCCAACCCCGACCAGAAGGGCAAGATGCGGCGCATCGACTGTCTCCGGCAGGCGGACAAGGTGTGGCGGC
TGGACCTGGTCATGGTCATCCTGTTCAAGGGCATCCCGCTGGAGAGCACCGACGGCGAGCGCCTGGTCAAGGCTG
CGCAGTGCGGTCACCCGGTCCTGTGCGTGCAGCCGCACCACATTGGCGTGGCCGTCAAGGAGCTGGACCTCTACC
TGGCCTACTTCGTGCGTGAGCGAGATGCAGAGCAAAGCGGCAGTCCCCGGACAGGGATGGGCTCTGACCAGGAGG
ACAGCAAGCCCATCACGCTGGACACGACCGACTTCCAGGAGAGCTTTGTCACCTCCGGCGTGTTCAGCGTCACTG
AGCTCATCCAAGTGTCCCGGACACCCGTGGTGACTGGAACAGGACCCAACTTCTCCCTGGGGGAGCTGCAGGGGC
ACCTGGCATACGACCTGAACCCAGCCAGCACTGGCCTCAGAAGAACGCTGCCCAGCACCTCCTCCAGTGGGAGCA
AGCGGCACAAATCGGGCTCGATGGAGGAAGACGTGGACACGAGCCCTGGCGGCGATTACTACACTTCGCCCAGCT
CGCCCACGAGTAGCAGCCGCAACTGGACGGAGGACATGGAAGGAGGCATCTCGTCCCCGGTGAAGAAGACAGAGA
TGGACAAGTCACCATTCAACAGCCCGTCCCCCCAGGACTCTCCCCGCCTCTCCAGCTTCACCCAGCACCACCGGC
CCGTCATCGCCGTGCACAGCGGGATCGCCCGGAGCCCACACCCGTCCTCCGCTCTGCATTTCCCTACGACGTCCA
TCCTACCCCAGACGGCCTCCACCTACTTCCCCCACACGGCCATCCGCTACCCACCTCATCTCAACCCCCAGGACC
CGCTCAAAGATCTTGTCTCGCTGGCCTGCGACCCAGCCAGCCAGCAACCTGGACCGTCCTGGTATCTGGGATAGC
AAAGGTCTTCTTCCCTCGCCCCTTCTCCATCGTCCCAGGAATCCCAGGGGGCAGCACAGCCGGCCCCCGGCCCAC
GTTTTCGGTGGAAAATTAGAGTGAACAAGAACACCCCTGCCGACTCCCAGCCCGGCCAAAAAGACAAAACACATA
GACGCACACACTCAGGAGGAAAAGAAAAAACAAAGGCAGAAGAAGAAGAAGAAGAAATAAAAACCCACCCAAGCA
AGAAGACAAAAGGTAAAGACGCAACGTTTCCAACTCTCGGGACGCCAAGGCCGCAGGACTGGAGGGCCAGGCCCC
GCCACCCCCACGGGAGACCCGGGACAGGGCGTCTTCCTAAGTTATTCATCTCCTCTCCGCCTGCTGCTCGGGAAG
GACAGACGCCGGCCGCCCGCCCGCGCCCCGGAGGCCCTGGCTCTGTCCGGAGACCAGGTGAGCACAGCCTGGAGC
CTGTGCCCAGGGCCGACAGGCGCGACACCCAGCAAGGCCACCTCTCCCCGGGCCCCCGCGCCTCTGCCGGACACG
GACCGGCCCCTCAGCCCCCACCGAGGACGCAGCCACTGGGGGGAAAGGGAGACACAGCGGACCCCGGCCGGGCAG
CGGAGACCGCAGAGGCGGGCAGGGTGGGGCAGGCGAGTGGTGTCGCGGGGGTGCGTGGCGCTTGCGAGCCCTGGC
CAGGGGAGGAAGTGAGGCCCAGGCACCTGCTGCCCCTCGAGGGGGCCCTGCCTGCCGCGGGGCCTCCCCACAAGC
CCCTCCCAAAGCGCCGGCCGACTCGCTGTCTCGCTGGGGACTCTTTCAGCCCTCGCGCCCGCCCGTTTGGGAGGA
GAAGTCTCTATGCAATTGGCCCCGGCCCCTCCACCCCCCACCCCCGGCATAGGAGGCCCCCCCACCTCGCCCGGC
TCACACCCCCCACTTCCTCTTTAAA

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FIGURE 312

GGTGGTGGCAGAGGCGCCTGCGGTTACTGGCCGGGCCGACGGGTCCTGAGTCTCCAGAGCTCGGTGAGGCGTCCC
GGAGGCGGCGATCACGGTTCTTACATCCCCGCGTCCCCAGGTTTAGCCTGAGCAGGGTTGTGGAAGGCCGGGACC
CATTGACAGCACG**ATG**GTGACGGAGCAGGAGGTGGATGCCATCGGGCAGACGCTGGTGGACCCCAAGCAGCCCCT
GCAGGCCCGCTTCCGGGCGCTGTTCACGCTGCGTGGGCTCGGCGGCCCAGGCGCCATTGCATGGATCAGCCAGGC
CTTCGATGACGATTCCGCCCTGCTCAAGCACGAGCTGGCCTACTGCCTGGGCCAGATGCAGGATGCCCGCGCCAT
CCCCATGCTGGTGGACGTGCTGCAAGACACCCGTCAGGAGCCCATGGTGCGCCATGAGGCAGGGGAGGCCCTGGG
GGCCATCGGGGACCCGGAAGTTCTGGAGATCCTGAAGCAGTATTCCTCGGACCCCGTCATCGAGGTGGCCGAGAC
CTGCCAGCTGGCCGTGCGCAGGCTGGAGTGGCTGCAGCAGCACGGCGGGGAGCCGGCGGCGGGACCCTACCTCTC
CGTGGACCCTGCCCCGCCGGCTGAGGAGCGTGACGTGGGGCGCCTGCGGGAGGCGCTGCTGGATGAGTCCCGGCC
GCTCTTCGAGCGATACCGCGCCATGTTCGCCCTGCGCAACGCGGGAGGCGAGGAGGCCGCCCTGGCGCTGGCCGA
GGGTCTGCACTGTGGGAGCGCCCTCTTCCGCCACGAGGTCGGCTACGTCCTGGGACAGCTGCAGCACGAGGCGGC
GGTGCCCCAGCTGGCGGCCGCCCTGGCCCGATGCACCGAGAACCCCATGGTGCGGCACGAGTGCGCGGAGGCCCT
GGGCGCCATTGCCCGGCCCGCCTGCCTGGCCGCGCTGCAGGCTCACGCGGACGACCCAGAGCGCGTGGTGCGTGA
GAGCTGCGAGGTGGCTCTGGACATGTATGAGCACGAGACCGGGCGGGCCTTCCAGTACGCGGACGGCCTGGAGCA
GCTGCGCGGGGCCCCCTCC**TAG**GGCCCCACCCTCACCCGGAGCTCCCGGAGGACTCTTGAGGGCCGCTCCTCCCC
CGCAGAGCTTTGGCGTCTAAACCGGGTGTGTGTAAATCGGTGTCATCGCTTGTGTCTTGCTGGGCGCATGGTTGC
TGTCCCCCTCCTCCGTCTGGGACCGAGGAGCTGCCGTTGTGCTGTGACTCCCTGAGTCCCCTGACTGCTCCTCGG
GGCCTGGCGCAGGGCTGTAGCGTGGAAGTTTCCAGGCTTGGGGTGGGACTCTGCGGGAGGCTCTGGGATGCCCGG
CTCAGGACAGGGGAGGATTGCGAGGGAAGCCAGGGGAGGATCGCGAGGGAAGCCAGGGGAGGATCGCGAGGGAAG
CCAGGGGAGGATCGCGAGGGAAGCCAGGGGAGGATCGCGAGGGAAGCCAAGGGAGGATCGCGAGGGGAGCCAGGG
GAGGATCGCGAGGGAAGCCAGGGGCAGAGCTGGGGCTCTGGGAAGAGGCTGACGTTATGGTGGCTTCAGCTTCAC
TAGGAATGGGACACAGGGTCTGGGGGCCTCTGACTCCCCCACCCCGAGGCCTGGGTAGGGACAGGGTGGTGGTCC
CTGAGTGGGTCAGGTAGGGCACAGGGGCCAGGGAGGGACAAGCAGACCTCAGAGCGCTGCCCAGATGGAATATTA
AATTATTTTTGCCAA

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FIGURE 313

ATGGACCAGGACTATGAGCGGCGCCTGCTTCGCCAGATCGTCATCCAGAATGAGAACACGATGCCACGCGTCACA
GAGATGCGGCGGACCCTGACGCCTGCCAGCTCCCCAGTGTCCTCGCCCAGCAAGCACGGAGACCGCTTCATCCCC
TCCAGAGCCGGAGCCAACTGGAGCGTGAACTTCCACAGGATTAACGAGAATGAGAAGTCTCCCAGTCAGAACCGG
AAAGCCAAGGACGCCACCTCAGACAACGGCAAAGACGGCCTGGCCTACTCTGCCCTGCTCAAGAATGAGCTGCTG
GGTGCCGGCATCGAGAAGGTGCAGGACCCGCAGACTGAGGACCGCAGGCTGCAGCCCTCCACGCCTGAGAAGAAG
GGTCTGTTCACGTATTCCCTTAGCACCAAGCGCTCCAGCCCCGATGACGGCAACGATGTGTCTCCCTACTCCCTG
TCTCCCGTCAGCAACAAGAGCCAGAAGCTGCTCCGGTCCCCCCGGAAACCCACCCGCAAGATCTCCAAGATCCCC
TTCAAGGTGCTGGACGCGCCCGAGCTGCAGGACGACTTCTACCTCAATCTGGTGGACTGGTCGTCCCTCAATGTG
CTCAGCGTGGGGCTAGGCACCTGCGTGTACCTGTGGAGTGCCTGTACCAGCCAGGTGACGCGGCTCTGTGACCTC
TCAGTGGAAGGGGACTCAGTGACCTCCGTGGGCTGGTCTGAGCGGGGGAACCTGGTGGCGGTGGGCACACACAAG
GGCTTCGTGCAGATCTGGGACGCAGCCGCAGGGAAGAAGCTGTCCATGTTGGAGGGCCACACGGCACGCGTCGGG
GCGCTGGCCTGGAATGCTGAGCAGCTGTCGTCCGGGAGCCGCGACCGCATGATCCTGCAGAGGGACATCCGCACC
CCGCCACTGCAGTCGGAGCGGCGGCTGCAGGGCCACCGGCAGGAGGTGTGCGGGCTCAAGTGGTCCACAGACCAC
CAGCTCCTCGCCTCGGGGGGCAACGACAACAAGCTGCTGGTCTGGAATCACTCGAGCCTGAGCCCCGTGCAGCAG
TACACGGAGCACCTGGCGGCCGTGAAGGCCATCGCCTGGTCCCCACATCAGCACGGGCTGCTGGCCTCGGGGGGC
GGCACAGCTGACCGCTGTATCCGCTTCTGGAACACGCTGACAGGACAACCACTGCAGTGTATCGACACGGGCTCC
CAAGTGTGCAATCTGGCCTGGTCCAAGCACGCCAACGAGCTGGTGAGCACGCACGGCTACTCACAGAACCAGATC
CTTGTCTGGAAGTACCCCTCCCTGACCCAGGTGGCCAAGCTGACCGGGCACTCCTACCGCGTGCTGTACCTGGCA
ATGTCCCCTGATGGGGAGGCCATCGTCACTGGTGCTGGAGACGAGACCCTGAGGTTCTGGAACGTCTTTAGCAAA
ACCCGTTCGACAAAGGTAAAGTGGGAGTCTGTGTCTGTGCTCAACCTCTTCACCAGGATCCGG**TAA**

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FIGURE 314

GTGTGCA**ATG**GCTGCACACAGCAGCTTCCTTGGTAGTGTACGCAGCCTGTTGGTTGTATGGGTTGCTCTAAGGGA
CCTTGGAGACAGGCCTTTCCGATGGATGTTCATGTTTCTAACCTTGCACTACCACAATGTAGGCTCCAAACAGGC
ATGTGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTGACATTGGCCAAGTTATCATGTCCATCCGC
ACCAAGCTGCAGAACAAGGAGCATGCGATTGAGGCCTTGCGCAGGGCCAAGTTCAAGTTTCCTGGCCGCCAGAAG
ATCTACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGCGG
CTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAATCGTGGCCCTCTGGACAAGTGGCTGGCCCTGCACTCA
TGAGGGCTTCCAATGTGCTGCCCCCCCTATTAATACTCACCAA**TAA**ATTCTACTTCCTGTCCAAAAAAAAAAA

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FIGURE 315

GCTCGGGTGAGGAGCTGGTGGCGTCGGCAGGTTCGAGGCGATTCGAGCTCCAGCTAGGATGATCGAGGTTGTTTG
CAACGACCGTCTGGGGAAGAAGGTCCGCGTTAAATGCAACACGGATGATACCATCGGGGACCTTAAGAAGCTGAT
TGCAGCCCAAACTGGTACCCGTTGGAACAAGATTGTCCTGAAGAAGTGGTACACGATTTTTAAGGACCACGTGTC
TCTGGGGGACTATGAAATCCACGATGGGATGAACCTGGAGCTTTATTATCAATAGATGAGAATCCTCATCTTCCT
GCCCCGCTTTCCTCTCCCATCCTCATCCCCCACACTGGGATAGATGCTTGTTTGTAAAAACTCACCTTAATAAAG
ACTTAGATGTTG

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FIGURE 316

GAGGGAAG**ATG**GCGGACGAGGAGAAGCTGCCGCCCGGCTGGGAGAAGCGCATGAGCCGCAGCTCAGGCCGAGTGT
ACTACTTCAACCACATCACTAACGCCAGCCAGTGGGAGCGGCCCAGCGGCAACAGCAGCAGTGGTGGCAAAAACG
GGCAGGGGGAGCCTGCCAGGGTCCGCTGCTCGCACCTGCTGGTGAAGCACAGCCAGTCACGGCGGCCCTCGTCCT
GGCGGCAGGAGAAGATCACCCGGACCAAGGAGGAGGCCCTGGAGCTGATCAACGGCTACATCCAGAAGATCAAGT
CGGGAGAGGAGGACTTTGAGTCTCTGGCCTCACAGTTCAGCGACTGCAGCTCAGCCAAGGCCAGGGGAGACCTGG
GTGCCTTCAGCAGAGGTCAGATGCAGAAGCCATTTGAAGACGCCTCGTTTGCGCTGCGGACGGGGGAGATGAGCG
GGCCCGTGTTCACGGATTCCGGCATCCACATCATCCTCCGCACTGAG**TGA**GGGTGGGGAGCCCAGGCCTGGCCTC
GGGGCAGGGCAGGGCGGCTAGGCCGGCCAGCTCCCCCTTGCCCGCCAGCCAGTGGCCGAACCCCCCACTCCCTGC
CACCGTCACACAGTATTTATTGTTCCCACAATGGCTGGGAGGGGGCCCTTCCAGATTGGGGGCCCTGGGGTCCCC
ACTCCCTGTCCATCCCCAGTTGGGGCTGCGACCGCCAGATTCTCCCTTAAGGAATTGACTTCAGCAGGGGTGGGA
GGCTCCCAGACCCAGGGCAGTGTGGTGGGAGGGGTGTTCCAAAGAGAAGGCCTGGTCAGCAGAGCCGCCCCGTGT
CCCCCCAGGTGCTGGAGGCAGACTCGAGGGCCGAATTGTTTCTAGTTAGGCCACGCTCCTCTGTTCAGTCGCAAA
GGTGAACACTCATGCGGCCCAGCCATGGGCCCTCTGAGCAACTGTGCAGCACCCTTTCACCCCCAATTAAACCCA
GAACCA

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FIGURE 317

AGACTCGGAGCGAGCGAGGGGGCGGGGGTGGGGCGGAATCCCGGCCGCCGGCGAGGCGGGGGAGGCGGCGGCGCA
GGGTCGCCCCGGCCGGGCGGGCGGGGTCGCGCCTGGTGGCGGTCCCCGCGCCGAGGCGCCGCTAGGGCGGGCGGG
GGTCGGGACGCCGGGCTAGGGGCGCGTC**ATG**TGGCCGCTCACGGTCCCGCCGCCGCTGCTGCTGCTGCTGTGCTC
AGGCCTGGCCGGACAGACTCTCTTCCAGAACCCAGAAGAGGGCTGGCAGCTGTACACCTCAGCCCAGGCCCCTGA
CGGGAAATGCATCTGCACGGCCGTGATCCCAGCGCAGAGTACCTGCTCTCGAGATGGCAGGAGTCGGGAGCTGCG
GCAACTGATGGAGAAGGTCCAGAACGTCTCCCAGTCCATGGAGGTCCTTGAGTTGCGGACGTATCGCGACCTCCA
GTATGTACGCGGCATGGAGACCCTCATGCGGAGCCTGGATGCGCGGCTCCGGGCAGCTGATGGGTCCCTCTCGGC
CAAGAGCTTCCAGGAGCTGAAGGACAGGATGACGGAACTGTTGCCCCTGAGCTCGGTCCTGGAGCAGTACAAGGC
AGACACGCGGACCATTGTACGCTTGCGGGAGGAGGTGAGGAATCTCTCCGGCAGTCTGGCGGCCATTCAGGAGGA
GATGGGTGCCTACGGGTATGAGGACCTGCAGCAACGGGTGATGGCCCTGGAGGCCCGGCTCCACGCCTGCGCCCA
GAAGCTGGGCTGTGGGAAGCTGACCGGGGTCAGTAACCCCATCACCGTTCGGGCCATGGGGTCCCGCTTCGGCTC
CTGGATGACTGACACGATGGCCCCCAGTGCGGATAGCCGGGTCTGGTACATGGATGGCTATTACAAAGGCCGCCG
GGTCCTGGAGTTCCGTACCCTGGGAGACTTCATCAAAGGCCAGAACTTTATCCAGCACCTGCTGCCCCAGCCGTG
GGCGGGCACGGGCCACGTGGTGTACAACGGCTCCCTGTTCTATAACAAGTACCAGAGCAACGTGGTGGTCAAATA
CCACTTCCGCTCGCGCTCTGTGCTGGTGCAGAGGAGCCTCCCGGGCGCCGGTTACAACAACACCTTCCCCTACTC
CTGGGGCGGCTTCTCCGACATGGACTTCATGGTGGACGAGAGCGGGCTCTGGGCTGTGTACACCACCAACCAGAA
CGCGGGCAACATCGTGGTCAGCCGGCTGGACCCGCACACCCTCGAGGTCATGCGGTCCTGGGACACCGGCTACCC
CAAGCGCAGCGCTGGCGAGGCCTTCATGATCTGCGGTGTGCTCTACGTGACCAACTCCCACCTGGCTGGGGCCAA
GGTCTACTTCGCCTATTTTACCAACACGTCCAGTTACGAGTACACGGACGTGCCCTTCCACAACCAGTATTCCCA
CATCTCGATGCTGGATTACAACCCCCGGGAGCGCGCCCTCTATACCTGGAACAACGGCCACCAGGTGCTCTACAA
TGTCACCCTGTTTCACGTCATCAGCACCTCTGGGGACCCC**TGA**GCCAATGCTGTGGCTCGGGCTGCTGCCTGGGG
GGCCTCTGGGGGCTGGGGGCCCTTTTCATTCTGCCTGTGTCCCTCAAGGGTGATCTCTCTGTCTCTGTCACGCCC
TTTCTCCCCGCCTTTTTGCTGGGCTTTTGTTCTCTGCCTATGTATTTCTGTCTATTTTTTCAATTTCCCCTCTTC
TCCTTTATTGATCTCTGCTTTTAATACACCACTTCTTTCTTTCTGCCTTTTTATGGATGTCTTTTTCTTTTTATG
GCTCTGGTTCTCCAGTTCTTTCCGTCTCTGCCTCTCTCTGTCTCTCTCTCTCTGTCCTTCCACCCCTCCCTCCTT
GCTTCCCACCCATTCCTCATCCCTCACTCCCACCCCCACCCCCACCCCCAGGAGTTGAGTGCATGGATCTGTTTC
TTTTTTTATTTACACTTTTTCTTTCCGGTTTGCCGGAATAAACAGGACCTTTGACATTTG

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FIGURE 318A

GCGAGTGACTGCACCGAGCCCGAGAAGTCGCCGCGCCCCGCAGCCGCCCCGACTGGTTCCCCGCCTTGCCCGTGG
GCCCCGCCGGGATGGGGAACCGCCGGGACCTGGGCCAGCCGCGGGCCGGTCTCTGCCTGCTCCTGGCCGCGCTGC
AGCTTCTGCCGGGGACGCAGGCCGATCCTGTGGATGTCCTGAAGGCCCTGGGTGTGCAGGGAGGCCAGGCTGGGG
TCCCCGAGGGGCCTGGCTTCTGTCCCCAGAGGACTCCAGAGGGTGACCGGGCATTCAGAATTGGCCAGGCCAGCA
CGCTCGGCATCCCCACGTGGGAACTCTTTCCAGAAGGCCACTTTCCTGAGAACTTCTCCTTGCTGATCACCTTGC
GGGGACAGCCAGCCAATCAGTCTGTCCTGCTGTCCATTTATGATGAAAGGGGTGCCCGGCAGTTGGGCCTGGCAC
TGGGGCCAGCGCTGGGTCTCCTAGGTGACCCCTTCCGCCCCCTCCCCCAGCAGGTCAACCTCACAGATGGCAGGT
GGCACCGTGTGGCCGTCAGCATAGATGGTGAGATGGTGACCCTGGTAGCTGACTGTGAAGCTCAGCCCCCTGTTT
TGGGCCATGGCCCCCGCTTCATCAGCATAGCTGGACTCACTGTGCTGGGGACCCAGGACCTTGGGGAAAAGACTT
TCGAGGGAGACATTCAGGAGCTGCTGATAAGCCCAGATCCTCAGGCTGCCTTCCAGGCTTGTGAGCGGTACCTCC
CCGACTGTGACAACCTGGCACCGGCAGCCACAGTGGCTCCCCAGGGTGAACCAGAAACCCCTCGTCCTCGGCGGA
AGGGGAAGGGAAAAGGGAGGAAGAAAGGGCGAGGTCGCAAGGGGAAGGGCAGGAAAAAGAACAAGGAAATTTGGA
CCTCAAGTCCACCTCCTGACTCCGCAGAGAACCAGACCTCCACTGACATCCCCAAGACAGAGACTCCAGCTCCAA
ATCTGCCTCCGACCCCCACGCCTTTGGTCGTCACCTCCACTGTGACTACTGGACTCAATGCCACGATCCTAGAGA
GGAGCTTGGACCCTGACAGTGGAACCGAGCTGGGGACCCTGGAGACCAAGGCAGCCAGGGAGGATGAAGAAGGAG
ATGATTCCACCATGGGCCCTGACTTCCGGGCAGCAGAATATCCATCTCGGACTCAGTTCCAGATCTTTCCTGGTG
CTGGAGAGAAAGGAGCAAAAGGAGAGCCCGCAGTGATTGAAAAGGCAGCAGTTTGAGGGACCTCCAGGAGCCCCA
GGACCCCAAGGGGTGGTTGGCCCCTCAGGCCCTCCCGGCCCCCCAGGATTCCCTGGCGACCCTGGTCCACCGGGC
CCTGCTGGCCTCCCAGGAATCCCCGGCATTGATGGGATCCGAGGCCCACCGGGCACTGTGATCATGATGCCGTTC
CAGTTTGCAGGCGGCTCCTTTAAAGGCCCCCCAGTCTCATTCCAGCAGGCCCAGGCTCAGGCAGTTCTGCAGCAG
ACTCAGCTCTCTATGAAAGGCCCCCTGGTCCAGTGGGGCTCACTGGGCGCCCAGGCCCTGTGGGTCTCCCCGGGC
ATCCAGGTCTGAAAGGAGAGGAGGGAGCAGAAGGGCCACAGGGTCCCCGAGGCCTGCAGGGACCTCATGGACCCC
CTGGCCGAGTGGGCAAGATGGGCCGCCCTGGAGCAGATGGAGCTCGGGGCCTCCCAGGGGACACTGGACCTAAGG
GTGATCGTGGCTTCGATGGCCTCCCTGGGCTGCCTGGTGAGAAGGGCCAAAGGGGTGACTTTGGCCATGTGGGGC
AACCCGGTCCCCCAGGAGAGGATGGTGAGAGGAGCAGAGGGACCTCCAGGGCCCACTGGCCAGGCTGGGGAGCCG
GGTCCACGAGGACTGCTTGGCCCCAGAGGCTCTCCTGGCCCCACGGGTCGCCCGGGTGTGACTGGAATTGATGGT
GCTCCTGGTGCCAAAGGCAATGTGGGTCCTCCAGGAGAACCAGGCCCTCCGGGACAGCAGGGAAACCATGGGTCC
CAGGGACTCCCCGGTCCCCAGGGACTCATTGGCACTCCTGGGGAGAAGGGTCCCCCTGGAAACCCAGGAATTCCA
GGCCTCCCAGGATCCGATGGCCCTCTGGGTCACCCAGGACATGAGGGCCCCACGGGAGAGAAAGGGGCTCAGGGT
CCACCAGGGTCGGCAGGCCCTCCGGGCTATCCTGGACCTCGGGGAGTGAAGGGCACTTCAGGCAACCGGGGCCTC
CAGGGGGAGAAAGGCGAGAAGGGAGAGGACGGCTTCCCAGGCTTCAAGGGCGATGTGGGGCTCAAAGGTGATCAG
GGGAAACCCGGAGCTCCAGGTCCCCGGGGAGAGGATGGTCCTGAGGGGCCGAAGGGGCAGGCGGGGCAGGCTGGC
GAGGAGGGGCCCCCAGGCTCAGCTGGGGAGAAGGGCAAGCTTGGGGTGCCAGGCCTCCCAGGTTATCCAGGACGC
CCTGGACCTAAGATCTATTGGATTTCCCGGTCCCCTGGGACCCATAGGAGAGAAAGGGAAGTCGGGAAAGACAGG
GCAGCCAGGCCTGGAAGGAGAGCGGGGACCACCAGGTTCCCGTGGAGAGAGGGGGCAACCGGGTGCCACAGGGCA
ACCAGGCCCCAAGGGCGATGTGGGCCAGGATGGAGCCCCTGGGATCCCTGGAGAAAAGGGCCTCCCTGGTCTGCA
AGGCCCTCCAGGATTCCCTGGGCCAAAGGGCCCCCCTGGTCACCAAGGTAAAGATGGGCGACCAGGGCACCCTGG
ACAGAGAGGAGAACTGGGCTTCCAAGGTCAGACAGGCCCGCCTGGACCAGCTGGTGTCTTAGGCCCTCAGGGAAA
GACAGGAGAAGTGGGACCTCTAGGTGAAAGGGGGCCTCCAGGCCCCCCTGGACCTCCTGGTGAACAAGGTCTTCC
TGGCCTGGAAGGCAGAGAGGGGGCCAAGGGAACTGGGACCACCAGGACCCCTTGGGAAAGAAGGGCCAGCTGGAC
TCAGGGGCTTTCCCGGCCCCAAAGGGGGCCCTGGGGACCCGGGACCTACTGGCTTAAAGGGTGATAAGGGCCCCC
CAGGGCCCGTGGGGGCCAATGGCTCCCCTGGTGAGCGCGGTCCTTTGGGCCCAGCAGGAGGCATTGGACTTCCTG
GCCAAAGTGGCAGCGAAGGCCCCGTTGGCCCTGCAGGCAAGAAGGGGTCCCGGAGAACGTGGCCCCCCTGGCCCC
ACTGGCAAAGATGGGATCCCAGGGCCCCTGGGGCCTCTGGGACCCCCTGGAGCTGCTGGGCCTTCTGGCGAGGAA
GGGGACAAGGGATGTGGGTGCCCCCGGACACAAGGGGAGTAAAGGCGATAAAGGAGACGCGGGCCCACCTGGACA
ACCAGGGATACGGGGTCCTGCAGGACACCCAGGTCCCCCGGGAGCAGACGGGGCTCAGGGGCGCCGGGGACCCCC
AGGCCTCTTTGGGCAGAAAGGAGATGACGGAGTCAGAGGCTTTGTGGGGGTGATTGGCCCTCCTGGACTAGGGGC
TGCCAGGCCCTCCGGGAGAGAAAGGGGAGGTCGGAGACGTCGGGTCC**ATG**GGTCCCCATGGAGCTCCAGGTCCTC

FIGURE 318B

GGGGTCCCCAAGGCCCCACTGGATCAGAGGGCACTCCAGGGCTGCCTGGAGGAGTTGGTCAGCCAGGCGCCGTGG
GTGAGAAGGGTGAGCGAGGGGACGCTGGAGACCCAGGGCCTCCAGGAGCCCCAGGCATCCCGGGGCCCAAGGGAG
ACATTGGTGAAAAGGGGGACTCAGGCCCATCTGGAGCTGCTGGACCCCCAGGCAAGAAAGGTCCCCCTGGAGAGG
ATGGAGCCAAAGGGAGCGTGGGCCCCACGGGGCTGCCCGGAGATCTAGGGCCCCCAGGAGACCCTGGAGTTTCAG
GCATAGATGGTTCCCCAGGGGAGAAGGGAGACCCTGGTGATGTTGGGGGACCGGGTCCGCCTGGAGCTTCTGGGG
AGCCCGGCGCCCCCGGGCCCCCCGGCAAGAGGGGTCCTTCAGGCCACATGGGTCGAGAAGGCAGAGAAGGGGAGA
AAGGTGCCAAGGGGGAGCCAGGTCCTGATGGGCCCCCAGGGAGGACGGGTCCAATGGGGGCTAGAGGGCCCCCTG
GACGTGTGGGGCCTGAGGGTCTTCGAGGGATCCCTGGCCCTGTGGGTGAACCAGGCCTCCTGGGAGCCCCTGGAC
AGATGGGCCCTCCTGGCCCCCTGGGGCCCTCTGGCCTCCCAGGGCTGAAGGGAGACACTGGCCCCAAGGGGGAAA
AGGGCCACATTGGATTGATCGGTCTCATTGGCCCCCCGGGAGAAGCTGGTGAGAAAGGAGATCAGGGGTTGCCAG
GCGTGCAGGGACCCCCTGGTCCCAAGGGAGACCCTGGTCCCCCTGGTCCCATTGGCTCTCTGGGCCACCCTGGGC
CCCCAGGTGTGGCGGGCCCTCTAGGACAGAAAGGCTCAAAAGGGTCTCCGGGGTCCATGGGCCCCCGTGGAGACA
CTGGACCTGCAGGCCCACCAGGCCCCCCGGGTGCCCCTGCCGAGCTGCATGGGCTGCGCAGGCGCCGGCGCTTCG
TCCCAGTCCCGCTTCCAGTCGTGGAGGGCGGCCTGGAGGAGGTGCTGGCCTCGCTCACATCGCTGAGCTTGGAGC
TGGAGCAGCTGCGGCGTCCTCCCGGCACTGCGGAGCGCCCGGGCCTCGTGTGCCACGAGCTGCACCGCAACCACC
CGCACCTGCCTGATGGGGAATACTGGATTGACCCCAACCAGGGCTGCGCGCGGGACTCGTTCAGGGTTTTTTGCA
ACTTCACGGCGGGAGGAGAGACCTGCCTCTATCCCGACAAGAAGTTTGAGATCGTGAAATTGGCCTCCTGGTCCA
AGGAAAAGCCTGGAGGCTGGTATAGCACATTCCGTCGAGGGAAGAAGTTCTCCTACGTGGACGCCGACGGGTCCC
CAGTGAATGTCGTGCAGCTGAACTTCCTGAAACTGCTGAGTGCCACAGCTCGCCAGAACTTCACCTACTCCTGCC
AGAATGCAGCTGCCTGGCTGGACGAAGCCACGGGTGACTACAGCCACTCCGCCCGCTTCCTTGGCACCAATGGAG
AGGAGCTGTCTTTCAACCAGACGACAGCAGCCACTGTCAGCGTCCCCCAGGATGGCTGCCGGCTCCGGAAAGGAC
AGACGAAGACCCTTTTCGAATTCAGCTCTTCTCGAGCGGGATTTCTGCCCCTGTGGGATGTGGCGGCCACTGACT
TTGGCCAGACGAACCAAAAGTTTGGGTTTGAACTGGGCCCCGTCTGCTTCAGCAGCTGAGAGTGTCCGGGGTGGG
AGGGACCATGAGGGAGCCCCAGAATGGGGTGCATTTGGTGCTGAGGCTTTGAAGCCACCGTATTTTTCGTTACCT
GTGACTATGGAGCCAATGGGATGTGACTTCGCTCATCACGGACAGTCATTCCTTCTCCTTTCCAGGGTGCTGGGG
GCTGGGGTTCCCTGGCCCAAGGGTCCAGCCTCCTCTCACCCCATTCCAGGTGGCATACTGCAGTCTGGCTCTTTC
TCCCCTCCCTCCCCACCCAAGCCTCACCTCCCCACCCCTTGAACCCCCATGCAATGAGCTTCTAACTCAGAGCTG
ATGAACAAAAGCCCCCCCACCCCCAATGCCTGCCTCCTCACTCCTCCGTCGCTGCCCTTCACACCTTTTGGTGCT
ACCCCTCCCCAGAGTTAAGCACTGGATGTCTCCTGATCCCAGGCTGGGACCCCTACCCCCACCCCCTTTGATCCT
TTCTACTTCCACGGTGAAAGGACTGAGGTCGGACTACAGAGGGAAGAGGGACTTCCCTTGACTGGGTTGTGTTTC
TTTTCCTGCCTCAGCCCAGCTCTGCAAATCCCCTCCCCCTGCCCCCCACCTCCCCAGGCTCACCTTGCCATGCCA
GGTGGTTTGGGGACCAAGATGTTGGGGGGGTGAATCAGGATCCTAATGGTGCTGCCCTATTTATACCTGGGTCTG
TATTAAAAGGGAAAGTCCCCCCTGTTGTAGATTTCATCTGCTTCCTCCTTAGGGAAGGCTGGGATATGATGAGAG
ATTCCAGCCCAAGCCTGGCCCCCCACCGCCAGGCCATAGGGCATAATTTGCATCTCAAATCTGAGAATAAACTGA
TGAACTGTG

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FIGURE 319

CCCTGCGCGGCTGCTGGACCGACGGGCGCACCCAGGTAGGGGGGCGGCTGAGCCGCGCAGTGCGGACCCTCGCGG
GGAACTGCGCCGCCGCCACCATGTCTCAGGAAGGTGTGGAGCTGGAGAAGAGCGTCCGGCGCCTCCGGGAGAAGT
TTCATGGGAAGGTATCCTCCAAGAAGGCGGGGGCTCTGATGAGGAAATTCGGCAGCGACCACACGGGAGTGGGGC
GCTCCATCGTGTACGGGGTAAAGCAAAAAGATGGCCAAGAACTAAGTAACGATCTGGATGCCCAGGATCCACCAG
AAGATATGAAGCAGGACCGGGACATTCAGGCAGTGGCGACCTCCCTCCTGCCACTGACAGAAGCCAACCTACGCA
TGTTTCAACGTGCCCAGGACGACCTTATCCCTGCTGTGGACCGGCAGTTTGCCTGCTCCTCCTGCGACCACGTCT
GGTGGCGCCGCGTGCCCCAGCGGAAGGAGGTATCCCGGTGCCGGAAATGCCGGAAGCGCTACGAGCCAGTGCCAG
CTGACAAGATGTGGGGCCTGGCTGAGTTCCACTGCCCGAAGTGTCGGCACAACTTCCGGGGCTGGGCACAGATGG
GGTCCCCGTCCCCCTGCTACGGGTGCGGCTTCCCCGTGTATCCAACACGGATCCTCCCCCCGCGCTGGGACCGGG
ACCCGGATCGCCGCAGCACCCACACTCACTCCTGCTCAGCTGCCGACTGCTACAACCGGCGAGAGCCCCACGTGC
CTGGGACATCCTGTGCTCACCCCAAGAGCCGGAAGCAGAACCACCTGCCCAAAGTGCTCCACCCCAGCAACCCTC
ACATTAGCAGTGGCTCCACTGTGGCCACCTGCTTGAGCCAGGGTGGCCTCCTGGAAGACCTGGACAACCTCATCC
TGGAGGACCTGAAGGAGGAGGAGGAGGAAGAGGAGGAGGTGGAGGACGAGGAGGGCGGGCCCAGGGAGTGACCCC
TGCCAGGTGCAGATACAAACCAGACACGGTCTGTGGCTACTTTGTGTTATTATAAGATATGAGCTCAAACCGAGA
TATGAATGACCTTGGGGAGCCATCTGAGGCCAAGATATTGACGGGGGGGATTCCTGGGTCCCATTTTCAGCGCCC
AGGGTCACAGATCCACAGTGGGAAGTTCTGTGGGACACATTGGCACTGAGCCACAAAGAAGGTGTGGCCAGAACA
ACTTGGGCTCCTGCTGACCAATGTCCTCTAGGGCCTAGGGGACAGAGGAACACAGAGTCACAGCTTCAGGGGCCG
AATGAGCATGGCGGCCTTCCTGAGAGAATATGCCCCACCACGAAACTCAGCCCAGTAGACACCATCCTGGTAGCG
GCTTCGGTAGTGGCCGCCGTGGTGCCACACACCGTTGAGGTTGGAGTGGGCACAGGCATGGTACCACCAGCCTCC
CCGCTGGTACAGGGCACAGTTACCTGAGGGGAGAGAGAGAGTCCATGTCCTCTCACCAGAATAAAAGCCTCTACC
TGCACCTCACAGTGCAAGGCTTTTGCCAGGCATCCCCTGGCCCCTCCCATTCTTATTGAATACAAGCCCTGATCT
TCCATCTCCTCAGCAAAAAAATAGGAGCCCTGGCCCCCCAACTTTCTTCAGAGTAATAGCCTTAATTCCTTCCCT
ATCTCCTTACCAAAGTACAAGTCACATCTTTCCCACCTTTTCTGCAAACTAGGAGTCTACCGTTCATTCCTTTAT
CAAAGAAAAGTATCTACTTCCTTTCTAGAATAAGAGTACTAGCTCTCACCCTCTGCCCTTTACTTGAACAGGAGT
CTTGATTCTTTTTTTGCCTCATCAGAGAAGGAATCTGGACTCCCCATCCCCCCACCAGGATAAAAGTCCTGACCT
TTGTTCTCTTGACGGAATAAAAGCTTGCTTATCCTT

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FIGURE 320

TCAAGCGATCCTCCCTACTTAGCCTCCCAAAACACTGAGATTGCAGCCATGAGCCACTGCGCCTGGCCAGGTTTG
ATTTCTGTAGTAGCTGTTCAATTGTGGGTCAAGGGTCAGGTTCTGGGGTAAGGAGGTATTGGGCTTCTCACATTT
AAGGTCAGAAGTCCAGTCCTGGGTCAGGGGTTGGGATCAGAGATCAAGGCTGAGCTCTGAGTTTGGAGGTCAGGG
ATTGGACTCTCAGTGATTGAAATCCTTAGGTCAGAGGTACAGTCACTGAGGATAGGAGTCAGGAGTGGAGTTCGG
GACAGTCAAAGTCGAGGTTAAGTTTTAGGTCATCACCTCCTTCCGCTGGGGCACGCGGCGCCACCAGACGTGGTC
GCAGGAGGAGCAGGCAAACTGCCGGTCCACAGCAGGGATAAGGTCGTCCTGGGCACGTTGAAACATGCGTAGGTT
GGCTTCTGTCAGTGGCAGGAGGGAGGTCGCCACTGCCTGTGGAATGGGGCAGGTGGGGATGAGGTGGGGGGGTGT
CACCCCTTCTGCACCAACATAAGCATCAGCCCTCCTCTCCCTACAGACGAGTCCTCTTCCTGCCCCAGTGAATAT
CTCCCCTCCTGCCCTAATGGACATCCTTCTGTGCCTGCAGATGTCCCCCTCCCAACTCCCCCATCCCAAGCCCTA
GCCACCAACTCACCTGAATGTCCCGGTCCTGCTTCATATCTTCTGGTGGATCCTGGGTGGAGATAGCAGGGGCAG
AAACTGGGGATGGGGCTCAGGCCTCTTTCCACCCGTTTGCTGGGGGAGGCCCCCGGCCGCAATGAGTAGGGTGCC
CCTAACTCGCCAGAAGCTCACAGAGCACCACTCACTTATTGAGAGCCAGGTGTGTGGCCTCAGTTGTCCTCATAG
CAGCCCTGAGAGGTGGGCACACCTGTTACCTTATTGCTCAGATGGGGAAACTGAGGCTTAGGGGAGGGCTTGCCT
GAGTGAGGCTAGCCTGACCCCCATACTCACTTCCTGCCTGCAAATGCCAC**ATG**CTTGTTGATGTTGTGACATATC
GCCCCTTTGAGGCCACGTTGTGCTCGGCTAAGTGGGAGAGAGATGTGGGTTCAAATCCCAGCTGTATCACTTCCA
GCTGTGGGGACTTGGGCAAGCCACTCCCTGCCCCCTGGGTTCCCACTGACAGGCATGTTAGAGCCCAGGCTCTGA
CTCCAGGTGGCCAGGGTTCAAATCGCAGCTGCCCCTGCTTGCTGGCAAGTGACTTCGGCCTCAGTTTCTTTGTCT
GTGAAATGGGGATAAATAATAGGACCTGTCTCCTGGGGTCACTGCAG**TGA**TGAAATAAATAAATTCCTGGAATCT
TG

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FIGURE 321

ATTCGGGAAATGCTAAATATTTATAGTTTGGGCTCCTGGGCCCAGCATCCCAGCTCCACTCCCAGGCTCTGGGGG
CTGGGGAGTGGTTACCAAGCCTCCTCTCTCCTTCTGTCCCACTGCCCTCTCCCCGTCTCTAGCTCAGAGGCCCCA
CTGGACCCTCGGCTCTTCCTTGGACTTCTTGTGTGTTCTGTGAGCTTCGCTGGATTCAGGGTCTTGGGCATCAGA
GGTCCGCCGCG**ATG**GGGAAGCCCTGGCTGCGTGCGCTACAGCTGCTGCTCCTGCTGGGCGCGTCGTGGGCGCGGG
CGGGCGCCCCGCGCTGCACCTACACCTTCGTGCTGCCCCCGCAGAAGTTCACGGGCGCTGTGTGCTGGAGCGGCC
CCGCATCCACGCGGGCGACGCCCGAGGCCGCCAACGCCAGCGAGCTGGCGGCGCTGCGCATGCGCGTCGGCCGCC
ACGAGGAGCTGTTACGCGAGCTGCAGAGGCTGGCGGCGGCCGACGGCGCCGTGGCCGGCGAGGTGCGCGCGCTGC
GCAAGGAGAGCCGCGGCCTGAGCGCGCGCCTGGGCCAGTTGCGCGCGCAGCTGCAGCACGAGGCGGGGCCCGGGG
CGGGCCCGGGGGCGGATCTGGGGGCGGAGCCTGCCGCGGCGCTGGCGCTGCTCGGGGAGCGCGTGCTCAACGCGT
CCGCCGAGGCTCAGCGCGCAGCCGCCCGGTTCCACCAGCTGGACGTCAAGTTCCGCGAGCTGGCGCAGCTCGTCA
CCCAGCAGAGCAGTCTCATCGCCCGCCTGGAGCGCCTGTGCCCGGGAGGCGCGGGCGGGCAGCAGCAGGTCCTGC
CGCCACCCCCACTGGTGCCTGTGGTTCCGGTCCGTCTTGTGGGTAGCACCAGTGACACCAGTAGGATGCTGGACC
CAGCCCCAGAGCCCCAGAGAGACCAGACCCAGAGACAGCAGGAGCCCATGGCTTCTCCCATGCCTGCAGGTCACC
CTGCGGTCCCCACCAAGCCTGTGGGCCCGTGGCAGGATTGTGCAGAGGCCCGCCAGGCAGGCCATGAACAGAGTG
GAGTGTATGAACTGCGAGTGGGCCGTCACGTAGTGTCAGTATGGTGTGAGCAGCAACTGGAGGGTGGAGGCTGGA
CTGTGATCCAGCGGAGGCAAGATGGTTCAGTCAACTTCTTCACTACCTGGCAGCACTATAAGGCGGGCTTTGGGC
GGCCAGACGGAGAATACTGGCTGGGCCTTGAACCCGTGTATCAGCTGACCAGCCGTGGGGACCATGAGCTGCTGG
TTCTCCTGGAGGACTGGGGGGGCCGTGGAGCACGTGCCCACTATGATGGCTTCTCCCTGGAACCCGAGAGCGACC
ACTACCGCCTGCGGCTTGGCCAGTACCATGGTGATGCTGGAGACTCTCTTTCCTGGCACAATGACAAGCCCTTCA
GCACCGTGGATAGGGACCGAGACTCCTATTCTGGTAACTGTGCCCTGTACCAGCGGGGAGGCTGGTGGTACCATG
CCTGTGCCCACTCCAACCTCAACGGTGTGTGGCACCACGGCGGCCACTACCGAAGCCGCTACCAGGATGGTGTCT
ACTGGGCTGAGTTTCGTGGTGGGGCATATTCTCTCAGGAAGGCCGCCATGCTCATTCGGCCCCTGAAGCTG**TGA**C
TCTGTGTTCCTCTGTCCCCTAGGCCCTAGAGGACATTGGTCAGCAGGAGCCCAAGTTGTTCTGGCCACACCTTCT
TTGTGGCTCAGTGCCAATGTGTCCCACAGAACTTCCCACTGTGGATCTGTGACCCTGGGCGCTGAAAATGGGACC
CAGGAATCCCCCCCGTCAATATCTTGGCCTCAGATGGCTCCCCAAGGTCATTCATATCTCGGTTTGAGCTCATAT
CTTATAATAACACAAAGTAGCC

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FIGURE 322

AGGAGGCCTCGTGGAGGACACAGCAGCATGGGACAGTCAGGGAGGTCCCGGCACCAGAAGCGCGCCCGCGCCCAG
GCGCAGCTCCGCAACCTCGAGGCCTATGCCGCGAACCCGCACTCGTTCGTGTTCACGCGAGGCTGCACGGGTCGC
AACATCCGGCAGCTCAGCCTGGACGTGCGGCGGGTCATGGAGCCGCTCACTGCCAGCCGTCTGCAGGTTCGTAAG
AAGAACTCGCTGAAGGACTGCGTGGCAGTGGCTGGGCCCCTCGGGGTCACACACTTTCTGATCCTGAGCAAAACA
GAGACCAATGTCTACTTTAAGCTGATGCGCCTCCCAGGAGGCCCCACCTTGACCTTCCAGGTCAAGAAGTACTCG
CTGGTGCGTGATGTGGTCTCCTCACTGCGCCGGCACCGCATGCACGAGCAGCAGTTTGCCCACCCACCCCTCCTG
GTACTCAACAGCTTTGGCCCCCATGGTATGCATGTGAAGCTCATGGCCACCATGTTCCAGAACCTGTTCCCCTCC
ATCAACGTGCACAAGGTGAACCTGAACACCATCAAGCGCTGCCTCCTCATCGACTACAACCCCGACTCCCAGGAG
CTGGACTTCCGCCACTATAGCATCAAAGTTGTTCCTGTGGGCGCGAGTCGCGGGATGAAGAAGCTGCTCCAGGAG
AAGTTCCCCAACATGAGCCGCCTGCAGGACATCAGCGAGCTGCTGGCCACGGGCGCGGGGCTGTCGGAGAGCGAG
GCAGAGCCTGACGGCGACCACAACATCACAGAGCTGCCTCAGGCTGTCGCTGGCCGTGGCAACATGCGGGCCCAG
CAGAGTGCAGTGCGGCTCACCGAGATCGGCCCGCGGATGACACTGCAGCTCATCAAGGTCCAGGAGGGCGTCGGG
GAGGGCAAAGTGATGTTCCACAGTTTTGTGAGCAAGACGGAGGAGGAGCTGCAGGCCATCCTGGAAGCCAAGGAG
AAGAAGCTGCGGCTGAAGGCGCAGAGGCAGGCCCAGCAGGCCCAGAATGTGCAGCGCAAGCAGGAGCAGCGGGAG
GCCCACAGAAAGAAGAGCCTGGAGGGCATGAAGAAGGCACGGGTCGGGGGTAGTGATGAAGAGGCCTCTGGGATC
CCTTCAAGGACGGCGAGCCTGGAGTTGGGTGAGGACGATGATGAACAGGAAGATGATGACATCGAGTATTTCTGC
CAGGCGGTGGGCGAGGCGCCCAGTGAGGACCTGTTCCCCGAGGCCAAGCAGAAACGGCTTGCCAAGTCTCCAGGG
CGGAAGCGGAAGCGGTGGGAAATGGATCGAGGCAGGGGTCGCCTTTGTGACCAGAAGTTTCCCAAGACCAAGGAC
AAGTCCCAGGGAGCCCAGGCCAGGCGGGGGCCCAGAGGGGCTTCCCGGGATGGTGGGCGAGGCCGGGGCCGGGGC
CGCCCAGGGAAGAGAGTGGCCTGAGCCCAAGCCGCACCGGAGCAGCGGCTGGATTGAACGCCCCAGATTGGGGCC
CGAGATGTGGCCCTCGGTTTCCTTTCATAAAGGAGTTGTGTCCCCAGCCCTTCCACTCCAGTAAAGAACTGAATT
GGC

FIGURE 323

GAACCTCAGGAGGGTTGTGGCACAATGAGGAAGGAAACGTGGGTGGAAAGGCACGCTGGCCTGCTCTGCTGGCTG
GGCCAGTAACTGGGGATGGGGCTGGGGCAGGGCCCACTAAGCCACTGGTGACTGGGGGAGGGGCTGGGGAACTGG
GTAGCAGACACAGGCTGAGGATCGGCACGGGAGCATGGCAGCCAACGTCTCGGAGGTGCCAAGTCCTGCCCTGCC
AACTTCTTGGCAGCTGCCGACGACAAACTCAGTGGGTTCCAGGGGGACTTCCTGTGGCCCATACTGGTGGTTGAG
TTCCTGGTGGCCGTGGCCAGCAATGGCCTGGCCCTGTACCGCTTCAGCATCCGGAAGCAGCGCCCATGGCACCCC
GCCGTGGTCTTCTCTGTCCAGCTGGCAGTCAGCGACCTGCTCTGCGCCCTGACGCTGCCCCCGCTGGCCGCCTAC
CTCTATCCCCCCAAGCACTGGCGCTATGGGGAGGCCGCGTGCCGCCTGGAGCGCTTCCTCTTCACCTGCAACCTG
CTGGGCAGCGTCATCTTCATCACCTGCATCAGCCTCAACCGCTACCTGGGCATCGTGCACCCCTTCTTCGCCCGA
AGCCACCTGCGACCCAAGCACGCCTGGGCCGTGAGCGCTGCCGGCTGGGTCCTGGCCGCCCTGCTGGCC**ATG**CCC
ACACTCAGCTTCTCCCACCTGAAGAGGCCGCAGCAGGGGGCGGGCAACTGCAGCGTGGCCAGGCCCGAGGCCTGC
ATCAAGTGTCTGGGGACAGCAGACCACGGGCTGGCGGCCTACAGAGCGTATAGCCTGGTGCTGGCGGGGTTGGGC
TGCGGCCTGCCGCTGCTGCTCACGCTGGCAGCCTACGGCGCCCTCGGGCGGGCCGTGCTACGCAGCCCAGGCATG
ACTGTGGCCGAGAAGCTGCGTGTGGCAGCGTTGGTGGCCAGTGGTGTGGCCCTCTACGCCAGCTCCTATGTGCCC
TACCACATCATGCGGGTGCTCAACGTGGATGCTCGGCGGCGCTGGAGCACCCGCTGCCCGAGCTTTGCAGACATA
GCCCAGGCCACAGCAGCCCTGGAGCTGGGGCCCTACGTGGGCTACCAGGTGATGCGGGGCCTCATGCCCCTGGCC
TTCTGTGTCCACCCTCTACTCTACATGGCCGCAGTGCCCAGCCTGGGCTGCTGCTGCCGACACTGCCCCGGCTAC
AGGGACAGCTGGAACCCAGAGGACGCCAAGAGCACTGGCCAAGCCCTGCCCCTCAATGCCACAGCCGCCCCTAAA
CCGTCAGAGCCCCAGTCCCGTGAGCTGAGCCAA**TGA**

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FIGURE 324

CTTTTTGCGATGCCTACTGGAGACTTTGATTCGAAGCCCAGTTGGGCCGACCAGGTGGAGGAGGAGGGGGAGGAC
GACAAATGTGTCACCAGCGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCCAGAGCCAGAGCTA
CTGCCGGGAGCTCCACTGCCGCCTCCCAAGGAGGTCATCAACGGAAACATAAAGACAGTGACAGAGTACAAGATA
GATGAGGATGGCAAGAAGTTCAAGATTGTCCGCACCTTCAGGATTGAGACCCGGAAGGCTTCAAAGGCTGTCGCA
AGGAGGAAGAACTGGAAGAAGTTCGGGAACTCAGAGTTTGACCCCCCCGGACCCAATGTGGCCACCACCACTGTC
AGTGACGATGTCTCTATGACGTTCATCACCAGCAAAGAGGACCTGAACTGCCAGGAGGAGGAGGACCCTATGAAC
AAACTCAAGGGCCAGAAGATCGTGTCCTGCCGCATCTGCAAGGGCGACCACTGGACCACCCGCTGCCCCTACAAG
GATACGCTGGGGCCCATGCAGAAGGAGCTGGCCGAGCAGCTGGGCCTGTCTACTGGCGAGAAGGAGAAGCTGCCG
GGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAAGACAGGGAAGTATGTGCCGCCGAGCCTGCGCGACGGGGCC
AGCCGCCGCGGGGAGTCCATGCAGCCCAACCGCAGAGCCGACGACAACGCCACCATCCGTGTCACCAACTTGTCA
GAGGACACGCGTGAGACCGACCTGCAGGAGCTCTTCCGGCCTTTCGGCTCCATCTCCCGCATCTACCTGGCTAAG
GACAAGACCACTGGCCAATCCAAGGGCTTTGCCTTCATCAGCTTCCACCGCCGCGAGGATGCTGCGCGTGCCATT
GCCGGGGTGTCCGGCTTTGGCTACGACCACCTCATCCTCAACGTCGAGTGGGCCAAGCCGTCCACCAACTAAGCC
AGCTGCCACTGTGTACTCGGTCCGGGACCCTTGGCGACAGAAGACAGCCTCCGAGAGCGCGGGCTCCAAGGGCAA
TAAAGCAGCTCCACTCTC

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FIGURE 325A

TCCGCGTGGGGGGGGTGTGTGCCCGCCTTGCGCATGCGTGTTCCCTGGGCATGGCCGGCTCCGTTCCATCCTTCT
GCACAGGGTATCGCCTCTCTCCGTTTGGTACATCCCCTCCTCCCCCACGCCCGGACTGGGGTGGTAGACGCCGCC
TCCGCTCATCGCCCCTCCCCATCGGTTTCCGCGCGAAAAGCCGGGGCGCCTGCGCTGCCGCCGCCGCGTCTGCTG
AAGCCTCCGAGATGCCGGCGCGTACCGCCCCAGCCCGGGTGCCCACACTGGCCGTCCCGGCCATCTCGCTGCCCG
ACGATGTCCGCAGGCGGCTCAAAGATTTGGAAAGAGACAGCTTAACAGAAAAGGAATGTGTGAAGGAGAAATTGA
ATCTCTTGCACGAATTTCTGCAAACAGAAATAAAGAATCAGTTATGTGACTTGGAAACCAAATTACGTAAAGAAG
AATTATCCGAGGAGGGCTACCTGGCTAAAGTCAAATCCCTTTTAAATAAAGATTTGTCCTTGGAGAACGGTGCTC
ATGCTTACAACCGGGAAGTGAATGGACGTCTAGAAAACGGGAACCAAGCAAGAAGTGAAGCCCGTAGAGTGGGAA
TGGCAGATGCCAACAGCCCCCCCAAACCCCTTTCCAAACCTCGCACGCCCAGGAGGAGCAAGTCCGATGGAGAGG
CTAAGCCTGAACCTTCACCTAGCCCCAGGATTACAAGGAAAAGCACCAGGCAAACCACCATCACATCTCATTTTG
CAAAGGGCCCTGCCAAACGGAAACCTCAGGAAGAGTCTGAAAGAGCCAAATCGGATGAGTCCATCAAGGAAGAAG
ACAAAGACCAGGATGAGAAGAGACGTAGAGTTACATCCAGAGAACGAGTTGCTAGACCGCTTCCTGCAGAAGAAC
CTGAAAGAGCAAAATCAGGAACGCGCACTGAAAAGGAAGAAGAAAGAGATGAAAAAGAAGAAAAGAGACTCCGAA
GTCAAACCAAAGAACCAACACCCAAACAGAAACTGAAGGAGGAGCCGGACAGAGAAGCCAGGGCAGGCGTGCAGG
CTGACGAGGACGAAGATGGAGACGAGAAAGATGAGAAGAAGCACAGAAGTCAACCCAAAGATCTAGCTGCCAAAC
GGAGGCCCGAAGAAAAAGAACCTGAAAAAGTAAATCCACAGATTTCTGATGAAAAAGACGAGGATGAAAAGGAGG
AGAAGAGACGCAAAACGACCCCCAAAGAACCAACGGAGAAAAAAATGGCTCGCGCCAAAACAGTCATGAACTCCA
AGACCCACCCTCCCAAGTGCATTCAGTGCGGGCAGTACCTGGACGACCCTGACCTCAAATATGGGCAGCACCCAC
CAGACGCGGTGGATGAGCCACAGATGCTGACAAATGAGAAGCTGTCCATCTTTGATGCCAACGAGTCTGGCTTTG
AGAGTTATGAGGCGCTTCCCCAGCACAAACTGACCTGCTTCAGTGTGTACTGTAAGCACGGTCACCTGTGTCCCA
TCGACACCGGCCTCATCGAGAAGAATATCGAACTCTTCTTTTCTGGTTCAGCAAAACCAATCTATGATGATGACC
CATCTCTTGAAGGTGGTGTTAATGGCAAAAATCTTGGCCCCATAAATGAATGGTGGATCACTGGCTTTGATGGAG
GTGAAAAGGCCCTCATCGGCTTCAGCACCTCATTTGCCGAATACATTCTGATGGATCCCAGTCCCGAGTATGCGC
CCATATTTGGGCTGATGCAGGAGAAGATCTACATCAGCAAGATTGTGGTGGAGTTCCTGCAGAGCAATTCCGACT
CGACCTATGAGGACCTGATCAACAAGATCGAGACCACGGTTCCTCCTTCTGGCCTCAACTTGAACCGCTTCACAG
AGGACTCCCTCCTGCGACACGCGCAGTTTGTGGTGGAGCAGGTGGAGAGTTATGACGAGGCCGGGGACAGTGATG
AGCAGCCCATCTTCCTGACACCCTGCATGCGGGACCTGATCAAGCTGGCTGGGGTCACGCTGGGACAGAGGCGAG
CCCAGGCGAGGCGGCAGACCATCAGGCATTCTACCAGGGAGAAGGACAGGGGACCCACGAAAGCCACCACCACCA
AGCTGGTCTACCAGATCTTCGATACTTTCTTCGCAGAGCAAATTGAAAAGGATGACAGAGAAGACAAGGAGAACG
CCTTTAAGCGCCGGCGATGTGGCGTCTGTGAGGTGTGTCAGCAGCCTGAGTGTGGGAAATGTAAAGCCTGCAAGG
ACATGGTTAAATTTGGTGGCAGTGGACGGAGCAAGCAGGCTTGCCAAGAGCGGAGGTGTCCCAATATGGCCATGA
AGGAGGCAGATGACGATGAGGAAGTCGATGATAACATCCCAGAGATGCCGTCACCCAAAAAAATGCACCAGGGGA
AGAAGAAGAAACAGAACAAGAATCGCATCTCTTGGGTCGGAGAAGCCGTCAAGACTGATGGGAAGAAGAGTTACT
ATAAGAAGGTGTGCATTGATGCGGAAACCCTGGAAGTGGGGGACTGTGTCTCTGTTATTCCAGATGATTCCTCAA
AACCGCTGTATCTAGCAAGGGTCACGGCGCTGTGGGAGGACAGCAGCAACGGGCAGATGTTTCACGCCCACTGGT
TCTGCGCTGGGACAGACACAGTCCTCGGGGCCACGTCGGACCCTCTGGAGCTGTTCTTGGTGGATGAATGTGAGG
ACATGCAGCTTTCATATATCCACAGCAAAGTGAAAGTCATCTACAAAGCCCCCTCCGAAAACTGGGCCATGGAGG
GAGGCATGGATCCCGAGTCCCTGCTGGAGGGGGACGACGGGAAGACCTACTTCTACCAGCTGTGGTATGATCAAG
ACTACGCGAGATTCGAGTCCCCTCCAAAAACCCAGCCAACAGAGGACAACAAGTTCAAATTCTGTGTGAGCTGTG
CCCGTCTGGCTGAGATGAGGCAAAAAGAAATCCCCAGGGTCCTGGAGCAGCTCGAGGACCTGGATAGCCGGGTCC
TCTACTACTCAGCCACCAAGAACGGCATCCTGTACCGAGTTGGTGATGGTGTGTACCTGCCCCCTGAGGCCTTCA
CGTTCAACATCAAGCTGTCCAGTCCCGTGAAACGCCCACGGAAGGAGCCCGTGGATGAGGACCTGTACCCAGAGC
ACTACCGGAAATACTCCGACTACATCAAAGGCAGCAACCTGGATGCCCCTGAGCCCTACCGAATTGGCCGGATCA
AAGAGATCTTCTGTCCCAAGAAGAGCAACGGCAGGCCCAATGAGACTGACATCAAAATCCGGGTCAACAAGTTCT
ACAGGCCTGAGAACACCCACAAGTCCACTCCAGCGAGCTACCACGCAGACATCAACCTGCTCTACTGGAGCGACG
AGGAGGCCGTGGTGGACTTCAAGGCTGTGCAGGGCCGCTGCACCGTGGAGTATGGGGAGGACCTGCCCGAGTGCG
TCCAGGTGTACTCCATGGGCGGCCCCAACCGCTTCTACTTCCTCGAGGCCTATAATGCAAAGAGCAAAAGCTTTG
AAGATCCTCCCAACCATGCCCGTAGCCCTGGAAACAAAGGGAAGGGCAAGGGAAAAGGGAAGGGCAAGCCCAAGT

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FIGURE 325B

CCCAAGCCTGTGAGCCGAGCGAGCCAGAGATAGAGATCAAGCTGCCCAAGCTGCGGACCCTGGATGTGTTTTCTG
GCTGCGGGGGGTTGTCGGAGGGATTCCACCAAGCAGGCATCTCTGACACGCTGTGGGCCATCGAGATGTGGGACC
CTGCGGCCCAGGCGTTCCGGCTGAACAACCCCGGCTCCACAGTGTTCACAGAGGACTGCAACATCCTGCTGAAGC
TGGTCATGGCTGGGGAGACCACCAACTCCCGCGGCCAGCGGCTGCCCCAGAAGGGAGACGTGGAGATGCTGTGCG
GCGGGCCGCCCTGCCAGGGCTTCAGCGGCATGAACCGCTTCAATTCGCGCACCTACTCCAAGTTCAAAAACTCTC
TGGTGGTTTCCTTCCTCAGCTACTGCGACTACTACCGGCCCCGGTTCTTCCTCCTGGAGAATGTCAGGAACTTTG
TCTCCTTCAAGCGCTCCATGGTCCTGAAGCTCACCCTCCGCTGCCTGGTCCGCATGGGCTATCAGTGCACCTTCG
GCGTGCTGCAGGCCGGTCAGTACGGCGTGGCCCAGACTAGGAGGCGGGCCATCATCCTGGCCGCGGCCCCTGGAG
AGAAGCTCCCTCTGTTCCCGGAGCCACTGCACGTGTTTGCTCCCCGGGCCTGCCAGCTGAGCGTGGTGGTGGATG
ACAAGAAGTTTGTGAGCAACATAACCAGGTTGAGCTCGGGTCCTTTCCGGACCATCACGGTGCGAGACACGATGT
CCGACCTGCCGGAGGTGCGGAATGGAGCCTCGGCACTGGAGATCTCCTACAACGGGGAGCCTCAGTCCTGGTTCC
AGAGGCAGCTCCGGGGCGCACAGTACCAGCCCATCCTCAGGGACCACATCTGTAAGGACATGAGTGCATTGGTGG
CTGCCCGCATGCGGCACATCCCCTTGGCCCCAGGGTCAGACTGGCGCGATCTGCCCAACATCGAGGTGCGGCTCT
CAGACGGCACCATGGCCAGGAAGCTGCGGTATACCCACCATGACAGGAAGAACGGCCGCAGCAGCTCTGGGGCCC
TCCGTGGGGTCTGCTCCTGCGTGGAAGCCGGCAAAGCCTGCGACCCCGCAGCCAGGCAGTTCAACACCCTCATCC
CCTGGTGCCTGCCCCACACCGGGAACCGGCACAACCACTGGGCTGGCCTCTATGGAAGGCTCGAGTGGGACGGCT
TCTTCAGCACAACCGTCACCAACCCCGAGCCCATGGGCAAGCAGGGCCGCGTGCTCCACCCAGAGCAGCACCGTG
TGGTGAGCGTGCGGGAGTGTGCCCGCTCCCAGGGCTTCCCTGACACCTACCGGCTCTTCGGCAACATCCTGGACA
AGCACCGGCAGGTGGGCAATGCCGTGCCACCGCCCCTGGCCAAAGCCATTGGCTTGGAGATCAAGCTTTGTATGT
TGGCCAAAGCCCGAGAGAGTGCCTCAGCTAAAATAAAGGAGGAGGAAGCTGCTAAGGACTAGTTCTGCCCTCCCG
TCACCCCTGTTTCTGGCACCAGGAATCCCCAACATGCACTGATGTTGTGTTTTTAACATGTCAATCTGTCCGTTC
ACATGTGTGGTACATGGTGTTTGTGGCCTTGGCTGACATGAAGCTGTTGTGTGAGGTTCGCTTATCAACTAATGA
TTTAGTGATCAAATTGTGCAGTACTTTGTGCATTCTGGATTTTAAAAGTTTTTTATTATGCATTATATCAAATCT
ACCACTGTATGAGTGGAAATTAAGACTTTATGTAGTTTTTATATGTTGTAATATTTCTTCAAATAAATCTCTCCT
ATAAACC

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FIGURE 326

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTCGGACCCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCCAGCGCGGAGT
CGCGGCGGGTAGGGCGGCGTCGCGTGCGTGACGTCATCCAGCGGCGCCTCGCGAGGCTCCAGTGGCCTTGACCTC
CCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAGTTCGTCCGGGCCGGGGCGCGGGCCTGGCTTCGGCCTACCGG
CAGCCAGGGCCTGAGTTCCCTGGCGCAAGAGGCAGCGCGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGGG
TCTCCCGGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCCAGTGCAGGCCTGGGTCGA
GTCCTTGCGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCCAG
GCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG
AGCCGAGGTGCGGGGCGGTGGCCGGAAGCCTTGGCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCG
CTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCAT
GAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTC
CCTAGAGCTGCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTACT
CCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTT
GATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCCACCGTCGC
CTTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCGA
CTTCCCCCGACCCCTACCCCACGCTACCCAGGGCCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTCT
TCTGAGCCAGGCCGAGCCCCTGGCCGACTTGGGAGCCTCAGGCCCACGCCCACCCTTCGAGGAAGGTGTCACCTG
GACCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGGA
AAGCCCAGACGGGCTTCTGCATCCATTCCCTCTTTTTGTTTTTAAAATAAATTGTATTTTTG

FIGURE 327

GCGCCCCAGTCGACGCTGAGCTCCTCTGCTACTCAGAGTTGCAACCTCAGCCTCGCTATGGCTCCCAGCAGCCCC
CGGCCCGCGCTGCCCGCACTCCTGGTCCTGCTCGGGGCTCTGTTCCCAGGACCTGGCAATGCCCAGACATCTGTG
TCCCCCTCAAAAGTCATCCTGCCCCGGGGAGGCTCCGTGCTGGTGACATGCAGCACCTCCTGTGACCAGCCCAAG
TTGTTGGGCATAGAGACGCCGTTGCCTAAAAAGGAGTTGCTCCTGCCTGGGAACAACCGGAAGGTGTATGAACTG
AGCAATGTGCAAGAAGATAGCCAACCAATGTGCTATTCAAACTGCCCTGATGGGCAGTCAACAGCTAAAACCTTC
CTCACCGTGTACTGGACTCCAGAACGGGTGGAACTGGCACCCCTCCCCTCTTGGCAGCCAGTGGGCAAGAACCTT
ACCCTACGCTGCCAGGTGGAGGGTGGGGCACCCCGGGCCAACCTCACCGTGGTGCTGCTCCGTGGGGAGAAGGAG
CTGAAACGGGAGCCAGCTGTGGGGGAGCCCGCTGAGGTCACGACCACGGTGCTGGTGAGGAGAGATCACCATGGA
GCCAATTTCTCGTGCCGCACTGAACTGGACCTGCGGCCCCAAGGGCTGGAGCTGTTTGAGAACACCTCGGCCCCC
TACCAGCTCCAGACCTTTGTCCTGCCAGCGACTCCCCCACAACTTGTCAGCCCCCGGGTCCTAGAGGTGGACACG
CAGGGGACCGTGGTCTGTTCCCTGGACGGGCTGTTCCCAGTCTCGGAGGCCCAGGTCCACCTGGCACTGGGGGAC
CAGAGGTTGAACCCCACAGTCACCTATGGCAACGACTCCTTCTCGGCCAAGGCCTCAGTCAGTGTGACCGCAGAG
GACGAGGGCACCCAGCGGCTGACGTGTGCAGTAATACTGGGGAACCAGAGCCAGGAGACACTGCAGACAGTGACC
ATCTACAGCTTTCCGGCGCCCAACGTGATTCTGACGAAGCCAGAGGTCTCAGAAGGGACCGAGGTGACAGTGAAG
TGTGAGGCCCACCCTAGAGCCAAGGTGACGCTGAATGGGGTTCCAGCCCAGCCACTGGGCCCGAGGGCCCAGCTC
CTGCTGAAGGCCACCCCAGAGGACAACGGGCGCAGCTTCTCCTGCTCTGCAACCCTGGAGGTGGCCGGCCAGCTT
ATACACAAGAACCAGACCCGGGAGCTTCGTGTCCTGTATGGCCCCCGACTGGACGAGAGGGATTGTCCGGGAAAC
TGGACGTGGCCAGAAAATTCCCAGCAGACTCCAATGTGCCAGGCTTGGGGGAACCCATTGCCCGAGCTCAAGTGT
CTAAAGGATGGCACTTTCCCACTGCCCATCGGGGAATCAGTGACTGTCACTCGAGATCTTGAGGGCACCTACCTC
TGTCGGGCCAGGAGCACTCAAGGGGAGGTCACCCGCAAGGTGACCGTGAATGTGCTCTCCCCCCGGTATGAGATT
GTCATCATCACTGTGGTAGCAGCCGCAGTCATAATGGGCACTGCAGGCCTCAGCACGTACCTCTATAACCGCCAG
CGGAAGATCAAGAAATACAGACTACAACAGGCCCAAAAAGGGACCCCCATGAAACCGAACACACAAGCCACGCCT
CCCTGAACCTATCCCGGGACAGGGCCTCTTCCTCGGCCTTCCCATATTGGTGGCAGTGGTGCCACACTGAACAGA
GTGGAAGACATATGCCATGCAGCTACACCTACCGGCCCTGGGACGCCGGAGGACAGGGCATTGTCCTCAGTCAGA
TACAACAGCATTTGGGGCCATGGTACCTGCACACCTAAAACACTAGGCCACGCATCTGATCTGTAGTCACATGAC
TAAGCCAAGAGGAAGGAGCAAGACTCAAGACATGATTGATGGATGTTAAAGTCTAGCCTGATGAGAGGGGAAGTG
GTGGGGGAGACATAGCCCCACCATGAGGACATACAACTGGGAAATACTGAAACTTGCTGCCTATTGGGTATGCTG
AGGCCCCACAGACTTACAGAAGAAGTGGCCCTCCATAGACATGTGTAGCATCAAAACACAAAGGCCCACACTTCC
TGACGGATGCCAGCTTGGGCACTGCTGTCTACTGACCCCAACCCTTGATGATATGTATTTATTCATTTGTTATTT
TACCAGCTATTTATTGAGTGTCTTTTATGTAGGCTAAATGAACATAGGTCTCTGGCCTCACGGAGCTCCCAGTCC
TAATCACATTCAAGGTCACCAGGTACAGTTGTACAGGTTGTACACTGCAGGAGAGTGCCTGGCAAAAAGATCAAA
TGGGGCTGGGACTTCTCATTGGCCAACCTGCCTTTCCCCAGAAGGAGTGATTTTTCTATCGGCACAAAAGCACTA
TATGGACTGGTAATGGTTACAGGTTCAGAGATTACCCAGTGAGGCCTTATTCCTCCCTTCCCCCCAAAACTGACA
CCTTTGTTAGCCACCTCCCCACCCACATACATTTCTGCCAGTGTTCACAATGACACTCAGCGGTCATGTCTGGAC
ATGAGTGCCCAGGGAATATGCCCAAGCTATGCCTTGTCCTCTTGTCCTGTTTGCATTTCACTGGGAGCTTGCACT
ATGCAGCTCCAGTTTCCTGCAGTGATCAGGGTCCTGCAAGCAGTGGGGAAGGGGGCCAAGGTATTGGAGGACTCC
CTCCCAGCTTTGGAAGCCTCATCCGCGTGTGTGTGTGTGTGTATGTGTAGACAAGCTCTCGCTCTGTCACCCAGG
CTGGAGTGCAGTGGTGCAATCATGGTTCACTGCAGTCTTGACCTTTTGGGCTCAAGTGATCCTCCCACCTCAGCC
TCCTGAGTAGCTGGGACCATAGGCTCACAACACCACACCTGGCAAATTTGATTTTTTTTTTTTTTCCAGAGACGG
GGTCTCGCAACATTGCCCAGACTTCCTTTGTGTTAGTTAATAAAGCTTTCTCAACTGCC

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FIGURE 328

CTTTTTGCCATGGGGTCTCTGTTCCCTCTGTCGCTGCTGTTTTTTTTGGCGGCCGCCTACCCGGGAGTTGGGAGC
GCGCTGGGACGCCGGACTAAGCGGGCGCAAAGCCCCAAGGGTAGCCCTCTCGCGCCCTCCGGGACCTCAGTGCCC
TTCTGGGTGCGCATGAGCCCGGAGTTCGTGGCTGTGCAGCCGGGGAAGTCAGTGCAGCTCAATTGCAGCAACAGC
TGTCCCCAGCCGCAGAATTCCAGCCTCCGCACCCCGCTGCGGCAAGGCAAGACGCTCAGAGGGCCGGGTTGGGTG
TCTTACCAGCTGCTCGACGTGAGGGCCTGGAGCTCCCTCGCGCACTGCCTCGTGACCTGCGCAGGAAAAACACGC
TGGGCCACCTCCAGGATCACCGCCTACAAACCGCCCCACAGCGTGATTTTGGAGCCTCCGGTCTTAAAGGGCAGG
AAATACACTTTGCGCTGCCACGTGACGCAGGTGTTCCCGGTGGGCTACTTGGTGGTGACCCTGAGGCATGGAAGC
CGGGTCATCTATTCCGAAAGCCTGGAGCGCTTCACCGGCCTGGATCTGGCCAACGTGACCTTGACCTACGAGTTT
GCTGCTGGACCCCGCGACTTCTGGCAGCCCGTGATCTGCCACGCGCGCCTCAATCTCGACGGCCTGGTGGTCCGC
AACAGCTCGGCACCCATTACACTGATGCTCGGTGAGGCACCCCTGTAACCCTGGGGACTAGGAGGAAGGGGGCAG
AGAGAGTTATGACCCCGAGAGGGCGCACAGACCAAGCGTGAGCTCCACGCGGGTCGACAGACCTCCCTGTGTTCC
GTTCCTAATTCTCGCCTTCTGCTCCCAGCTTGGAGCCCCGCGCCCACAGCTTTGGCCTCCGGTTCCATCGCTGCC
CTTGTAGGGATCCTCCTCACTGTGGGCGCTGCGTACCTATGCAAGTGCCTAGCTATGAAGTCCCAGGCGTAAAGG
GGGATGTTCTATGCCGGCTGAGCGAGAAAAAGAGGAATATGAAACAATCTGGGGAAATGGCCATACATGGTGGCT
GACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGAGAATCGCTTGAGCCCAGGAGTTCGAGACCAGCCTG
GACAACATAGTGAGACCCCGTCTATGCAAAAAATACACAAATTAGCCTGGTGTGGTGGCCCGCACCTGTGGTCCC
AGCTACCCGGGAGGCTGAGTTGGGAGGATCCTTTGAGCCCTGAAAGTCGAGGTTGCAGTGAGCCTTGATCGTGCC
ACTGCACTCCAGCCTGGGGGGACAGAGCACGACCCTGTCTCCAAAAATAAAATAAAAATAAAAATAAATATTGGCG
GGGGAACCCTCTGGAATCAATAAAGGCTTCCTTAACCAGC

FIGURE 329

CCGTCCTCTAGCCCAGCTCCTCGGCTCGCGCTCTCCTCGCCTCCTGTGCTTTCCCCGCCGCGGCGATGCCAGGGC
CTTCGCCAGGGCTGCGCCGGGCGCTACTCGGCCTCTGGGCTGCTCTGGGCCTGGGGCTCTTCGGCCTCTCAGCGG
TCTCGCAGGAGCCCTTCTGGGCGGACCTGCAGCCTCGCGTGGCGTTCGTGGAGCGCGGGGGCTCGCTGTGGCTGA
ATTGCAGCACCAACTGCCCTCGGCCGGAGCGCGGTGGCCTGGAGACCTCGCTGCGCCGAAACGGGACCCAGAGGG
GTTTGCGTTGGTTGGCGCGGCAGCTGGTGGACATTCGCGAGCCGGAGACTCAGCCCGTCTGCTTCTTCCGCTGCG
CGCGGCGCACACTACAGGCGCGTGGGCTCATTCGCACTTTCCAGCGACCAGATCGCGTAGAGCTGATGCCGCTGC
CTCCCTGGCAGCCGGTGGGCGAGAACTTCACCCTGAGCTGTAGGGTCCCCGGCGCCGGGCCCCGTGCGAGCCTCA
CGCTGACCCTGCTGCGGGGCGCCCAGGAGCTGATCCGCCGCAGCTTCGCCGGTGAACCACCCCGAGCGCGGGGCG
CGGTGCTCACAGCCACGGTACTGGCTCGGAGGGAGGACCATGGAGCCAATTTCTCGTGTCGCGCCGAGCTGGACC
TGCGGCCGCACGGACTGGGACTGTTTGAAAACAGCTCGGCCCCCAGAGAGCTCCGAACCTTCTCCCTGTCTCCGG
ATGCCCCGCGCCTCGCTGCTCCCCGGCTCTTGGAAGTTGGCTCGGAAAGGCCCGTGAGCTGCACTCTGGACGGAC
TGTTTCCAGCCTCAGAGGCCAGGGTCTACCTCGCACTGGGGGACCAGAATCTGAGTCCTGATGTCACCCTCGAAG
GGGACGCATTCGTGGCCACTGCCACAGCCACAGCTAGCGCAGAGCAGGAGGGTGCCAGGCAGCTGGTCTGCAACG
TCACCCTGGGGGGCGAAAACCGGGAGACCCGGGAGAACGTGACCATCTACAGCTTCCCGGCACCACTCCTGACCC
TGAGCGAACCCAGCGTCTCCGAGGGGCAGATGGTGACAGTAACCTGCGCAGCTGGGGCCCAAGCTCTGGTCACAC
TGGAGGGAGTTCCAGCCGCGGTCCCGGGGCAGCCCGCCCAGCTTCAGCTAAATGCCACCGAGAACGACGACAGAC
GCAGCTTCTTCTGCGACGCCACCCTCGATGTGGACGGGGAGACCCTGATCAAGAACAGGAGCGCAGAGCTTCGTG
TCCTATACGCTCCCCGGCTAGACGATTCGGACTGCCCCAGGAGTTGGACGTGGCCCGAGGGCCCAGAGCAGACGC
TGCGCTGCGAGGCCCGCGGGAACCCAGAACCCTCAGTGCACTGTGCGCGCTCCGACGGCGGGGCCGTGCTGGCTC
TGGGCCTGCTGGGTCCAGTCACTCGGGCGCTCTCAGGCACTTACCGCTGCAAGGCGGCCAATGATCAAGGCGAGG
CGGTCAAGGACGTAACGCTAACGGTGGAGTACGCACCAGCGCTGGACAGCGTGGGCTGCCCAGAACGCATTACTT
GGCTGGAGGGAACAGAAGCCTCGCTGAGCTGTGTGGCGCACGGGGTACCGCCGCCTGATGTGATCTGCGTGCGCT
CTGGAGAACTCGGGGCCGTCATCGAGGGGCTGTTGCGTGTGGCCCGGGAGCATGCGGGCACTTACCGCTGCGAAG
CCACCAACCCTCGGGGCTCTGCGGCCAAAAATGTGGCCGTCACGGTGGAATATGGCCCCAGGTTTGAGGAGCCGA
GCTGCCCCAGCAATTGGACATGGGTGGAAGGATCTGGGCGCCTGTTTTCCTGTGAGGTCGATGGGAAGCCACAGC
CAAGCGTGAAGTGCGTGGGCTCCGGGGGCGCCACTGAGGGGGTGCTGCTGCCGCTGGCACCCCCAGACCCTAGTC
CCAGAGCTCCCAGAATCCCTAGAGTCCTGGCACCCGGTATCTACGTCTGCAACGCCACCAACCGCCACGGCTCCG
TGGCCAAAACAGTCGTCGTGAGCGCGGAGTCGCCACCGGAGATGGATGAATCTACCTGCCCAAGTCACCAGACGT
GGCTGGAAGGGGCTGAGGCTTCCGCGCTGGCCTGCGCCGCCCGGGGTCGCCCTTCCCCAGGAGTGCGCTGCTCTC
GGGAAGGCATCCCATGGCCTGAGCAGCAGCGCGTGTCCCGAGAGGACGCGGGCACTTACCACTGTGTGGCCACCA
ATGCGCATGGCACGGACTCCCGGACCGTCACTGTGGGCGTGGAATACCGGCCAGTGGTGGCCGAACTTGCTGCCT
CGCCCCCTGGAGGCGTGCGCCCAGGAGGAAACTTCACGTTGACCTGCCGCGCGGAGGCCTGGCCTCCAGCCCAGA
TCAGCTGGCGCGCGCCCCCGGGGGCCCTCAACATCGGCCTGTCGAGCAACAACAGCACACTGAGCGTGGCAGGCG
CCATGGGAAGCCACGGCGGCGAGTACGAGTGCGCAGCCACCAACGCGCACGGGCGCCACGCGCGGCGCATCACGG
TGCGCGTGGCCGGTCCGTGGCTATGGGTCGCCGTGGGCGGCGCGGCGGGGGGCGCGGCGCTGCTGGCCGCGGGGG
CCGGCCTGGCCTTCTACGTGCAGTCCACCGCCTGCAAGAAGGGCGAGTACAACGTGCAGGAGGCCGAGAGCTCAG
GCGAGGCCGTGTGTCTGAACGGAGCGGGCGGCGGCGCTGGCGGGGCGGCAGGCGCGGAGGGCGGACCCGAGGCGG
CGGGGGGCGCGGCCGAGTCGCCGGCGGAGGGCGAGGTCTTCGCCATACAGCTGACATCGGCGTGAGCCCGCTCCC
CTCTCCCCGCGGGCCGGGGGACGCCCCCCAGACTCACACGGGGGCTTATTTATTGCTTTATTTATTTACTTATTC
ATTTATTTATGTATTCAACTCCAAGGGCGTCACCCCCATTTTCTACCCATCCCCTCAATAAAGTTTTTATAAAGG
A

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FIGURE 330

ATGGAGGCCGAGCCAATCCCGGACTCCTCAATGCCAGCAAAGCTTCTGGCGCCGCCCTGTCTGAACCTGGAGCGG
CTGGGAGGATCCCCCTCCCAGGAGAAGCCGAGGACCCCAGGATGCTGCAGAATCAGTGAGAGGGTACACAAAGAG
CCGGCCCAAGTTGGAACCCCCTGGCCGGCTAAACCCAGGAGTCACCCAAGAAAACGTGACCCCACTGCCCTTCTC
CCCAGGTCCCTCTGGCCTGCATGCCAGGAGTCGGTCACCGCCCTGTGCTTCCTCCAAGAGACAGTGGAGAGGCTG
GGGCCGCCTGCTGCTGGACAGGGATTCCAAGGACACACAGACCAGGATCAGCCAAAAGGGCCGCCGTCTGCAGCC
CCCGGGGACTCCCTCGGCCCCACCCCAGAGAAGGCCCCGGAAACAGCTGAACCCCTGCCGGGGCACCGAGAGAGT
GGACCCTGGGTTCGAGGGGGTGACTCTGAAGTTTCAGATAAAGCCGGACTCCAGCCTGCAGATCATCCCCACGTA
CAGTTACAACGCAAACACCAGTGTGGGAGCCTGCCCTGCAGTAGCCGTTCTCAGGAATCCCCTGCAGATGCTGTT
GGGGGCCCTGCAGCCCACCCAGGAGGCACCGAGGCCCACTCAGCAGGCAGCGAGGCCCTGGAGCCCCGGCGCTGT
GCTTCCTGTCGGACCCAGAGGACCCCGCTCTGGAGAGACGCTGAAGATGGGACCCCTCTCTGCAACGCCTGTGGG
ATCAGGTACAAGAAATACGGCACTCGCTGCTCCAGCTGCTGGCTGGTGCCCAGGAAAAATGTCCAGCCCAAGAGG
CTATGTGGCAGATGTGGAGTGTCCCTGGACCCCATTCAGGAAGGT**TAA**

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FIGURE 331

GATGCATGTCATGGCCGCCTCCATGGCCCGGGGAGGCGTGAGTGCCAGGGTTCTACTGCAGGCTGCCAGGGGCAC
CTGGTGGAACAGACCTGGGGGCACTTCCGGGTCGGGGGAGGGGGTGGCGCTGGGGACAACCAGAAAGTTTCAAGC
GACAGGCTCGCGCCCGGCTGGAGAGGAGGACGCGGGCGGCCCGGAGCGGCCCGGGGACGTGGTGAACGTGGTGTT
CGTAGACCGCTCAGGCCAGCGGATCCCAGTGAGTGGCAGAGTCGGGGACAATGTTCTTCACCTGGCCCAGCGCCA
CGGGGTGGACCTGGAAGGGGCCTGTGAAGCCTCCCTGGCCTGCTCCACCTGCCATGTGTATGTGAGTGAAGACCA
CCTGGATCTCCTGCCTCCTCCCGAGGAGAGGGAAGACGACATGCTAGACATGGCCCCCCTCCTCCAGGAGAACTC
GCGGCTGGGCTGCCAGATTGTGCTGACACCGGAGCTGGAAGGAGCGGAATTCACCCTGCCCAAGATCACCAGGAA
CTTCTACGTGGATGGCCATGTCCCCAAGCCCCACTGACATGAACACCTGGACCATTCCACATTGCCATGGCCCCA
GGGCCCAGATTGAGGGAATAGCCAGGTGCCAGCCCTGCCCAGAGTGCGGACAGGCCCGGGAGAGACGTGGAAGCC
CCTGTGAAGGACAACACCCCTGCTTGGGAGAGAGTCCCATGTCCAGGCTCTGGTGGGGACAGGGCCCCTAGTGGG
GTGGCCTTCCCCAGGCCCCTGAGAATCAGGGTTTGAGTAGGAGTGGACTCATATTGGAGCTGCAATAAATCGATA
ACACAG

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FIGURE 332

CAAGATGGCGGCGGACGTGTCCGTTACTCACCGGCCCCCGCTGAGCCCTAAGTCTGGGGCCGAAGTCGAAGCCGG
CGATGCCGCGGAGCGCCGGGCGCCGGAAGAAGAGCTGCCGCCTCTAGATCCAGAAGAGATCCGGAAACGCCTGGA
ACACACCGAGCGCCAGTTCCGTAACCGCCGCAAGATACTGATCCGGGGCCTCCCGGGGGACGTGACCAACCAGGA
AGTACATGACCTGCTCAGTGACTATGAGCTCAAATACTGTTTTGTGGACAAATACAAAGGGACAGCCTTCGTGAC
CCTGCTGAATGGGGAGCAGGCCGAGGCCGCAATCAATGCTTTCCACCAGAGCCGCCTGCGGGAGCGTGAACTGTC
GGTGCAGCTGCAGCCCACGGATGCCCTGCTGTGTGTGGCCAACCTGCCCCCCAGCCTCACACAGCAGCAGTTCGA
GGAGCTGGTGCGGCCCTTCGGCAGCCTGGAGCGCTGCTTCCTGGTCTACAGTGAGCGCACTGGCCAATCCAAGGG
CTATGGCTTTGCTGAGTACATGAAGAAGGACTCGGCTGCCCGTGCCAAGTCGGACCTGCTGGGCAAGCCGCTGGG
ACCACGCACCCTCTACGTGCACTGGACGGATGCCGGGCAACTGACGCCTGCCCTTCTCCACTCCCGCTGCCTCTG
TGTGGACCGCCTGCCACCTGGCTTCAACGATGTGGACGCTCTGTGCCGGGCGCTGTCAGCTGTCCACAGCCCCAC
CTTCTGCCAGCTGGCGTGCGGCCAGGATGGGCAGCTGAAGGGCTTCGCGGTGCTGGAGTATGAGACGGCTGAGAT
GGCGGAGGAGGCACAGCAGCAGGCGGACGGCCTGTCCCTGGGGGGCAGCCACCTGCGAGTCTCCTTCTGCGCCCC
TGGGCCCCCCGGCCGCAGTATGCTGGCCGCTCTCATCGCTGCCCAGGCCACGGCCCTCAATCGGGGGAAGGGACT
CCTCCCCGAGCCCAACATCCTGCAGCTGCTCAACAACCTGGGCCCATCCGCGTCCCTCCAGCTGCTGCTCAACCC
CCTGCTCCATGGCAGTGCGGGGGGGAAGCAGGGCCTCCTGGGTGCCCCCCCAGCCATGCCGCTGCTCAATGGGCC
AGCCCTGTCCACGGCGCTGTTGCAGCTCGCCCTGCAGACCCAGGGCCAGAAGAAGCCCGGCATCCTGGGAGACTC
ACCCCTGGGCGCCCTCCAGCCTGGGGCCCAGCCAGCCAACCCCCTCCTCGGGGAGCTGCCTGCAGGAGGGGGCCT
GCCCCCGGAGCTGCCGCCCCGGCGAGGGAAGCCACCACCCCTGCTGCCATCCGTGCTTGGCCCTGCTGGGGGTGA
CCGGGAGGCCCTGGGCTTGGGTCCCCCAGCGGCCCAGCTCACTCCTCCCCCCGCCCCTGTGGGGCTCCGAGGCTC
TGGCCTCAGAGGCCTCCAGAAAGACAGTGGGCCTCTGCCGACGCCCCCTGGGGTCTCACTGCTGGGGGAGCCCCC
CAAGGACTACCGGATTCCCCTGAATCCCTACCTGAACCTACACAGCCTGCTCCCGGCCAGCAACCTGGCGGGTAA
GGAGGCCCGGGGCTGGGGAGGCGCCGGGAGAAGCCGCCGCCCAGCTGAGGGCCCCCCAACTAACCCCCCAGCCCC
TGGAGGTGGCAGCAGCAGCAAAGCCTTCCAGCTCAAGTCCCGCCTGCTCAGCCCCCTCAGCAGCGCCCGCCT
GCCCCCCGAACCAGGACTGTCTGACAGCTACAGCTTCGACTACCCCTCGGACATGGGACCTCGGCGGCTCTTCTC
CCACCCACGGGAACCAGCCCTTGGGCCTCACGGACCCAGCCGACACAAGATGTCCCCCCCGCCCAGTGGCTTCGG
CGAACGGAGCAGCGGTGGGAGTGGCGGGGGCCCCCTGTCTCACTTCTATTCAGGCTCGCCCACTTCCTACTTCAC
CAGCGGCCTGCAGGCTGGCCTCAAGCAGAGCCACCTCAGTAAGGCAATCGGCTCTTCCCCGCTGGGGTCCGGAGA
AGGGCTCCTGGGCCTCAGCCCCGGGCCTAATGGTCACAGCCACCTGCTGAAGACCCCACTGGGCGGCCAGAAACG
CAGCTTTGCCCACCTGCTGCCCTCGCCCGAGCCCAGCCCAGAAGGCAGCTATGTGGGCCAGCACTCCCAGGGCCT
CGGCGGCCACTACGCGGACTCCTACCTGAAGCGGAAGAGGATTTTCTAAGTGGCTGGCACCAGAGATAACTCAAG
GGCCTGCACCAAATCGCTTTTGGGTTTTCTGATGTTTTGTTTTGTGTTTTTTTTAAACCATTTTCTCTCTTTCGG
TAATAGAAAAATCTCTGAAAGACTTTACTGACCAATCAGCCGGAGCCCCAGGAGCCCAAGGGGTGTGGGGGAGTC
TGGAGGCCTCATTATGTCTCTGGCTTGCTCCCCACGCTGAAACCCTGCAGCCTTAAGAGAGAGGGGCCCCGGCCT
GCTCTCCCTCCCTCCCCCCATCTCCTCCTCCGCTGTGCCCGTCTCTCCGGAGCCCTCCTGCCTCATTGCTCCTGT
AATTTTGGCCTTTCGAGTGCCTTGGAGGTTTCCCTGACCTCCCGTGAAGATACAGAGACTGTCTCCTTTTTTTTT
AACTTTGACAACTGACTTCTGTTTCCTTTTCTAAGTTTTATTTTTCAAACCACCCCGGACAGCCCCCAGCTCTGA
TTCCTTCAAGGCCCGGCCTGTCCGGGCCACCATTCCACACCTTGCGGTTTGAAACAGCTGTTTTTCCCACATTTG
CTGCAGGCATGGCTGTCTCCTGCCCCTGCCTGCCCATCTGGCCTATACCCCAGCCGTGGGGCCCGGGGTCCCTGC
CGCAGCCCCCTCCCCTTCTGATGCCTTAAAAGCTGGGCCCCAGGCCCTGCTGGCCAGAGCCACAGATGCCAAGCT
CTGGGAGCTTGACTATGGACCAAACAGCTCTGGCCTAGGGATTGGGCCACCCTACCCAGGATCTCCACCCTGGGG
ACAGTAGAAGGGGAAAGCCTTCATCTTGGCGAACCGGCCCCACCACCCCCTCCTACCCGGGCCTCCGTGCAGAGA
TGGGCTTTCTCTGCCAGTCCCCTGCTGTCTGTCTGTGGGAGTCGGACATTGTGCCCATCTCCCGGAGCCTCTGCT
GTCACTCGCTTGTTGAAGATGAATTCTTGAATTCTGCCTGCCCACCCCCGGCCAGATCCCTGGAGCTGGCCTCCT
TCCAGCCCAGTGCCAGAAACCAGCACTCCATGAAGATAAACTCTGGGCCCGCCCACCAGCAGGACCTGTCGACCT
GAGGTGACCCTGGGCCTTGCCCCCAGCCAACTGGGCCACCAGCTTCCCTCCCTTGACTCTGGGGGTCCACATCCA
CTCCAAGGGGACTATTCCCCCGACCCCACCCCAGTCTCCCCACACGGACCTTTGCTGAATTAAAGTTTGTAAGTA
AATGGTTTTAAAG

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FIGURE 333

CTCTGTCAGAATGGCCACCATGGTACCATCCGTGTTGTGGCCCAGGGCCTGCTGGACTCTGCTGGTCTGCTGTCT
GCTGACCCCAGGTGTCCAGGGGCAGGAGTTCCTTTTGCGGGTGGAGCCCCAGAACCCTGTGCTCTCTGCTGGAGG
GTCCCTGTTTGTGAACTGCAGTACTGATTGTCCCAGCTCTGAGAAAATCGCCTTGGAGACGTCCCTATCAAAGGA
GCTGGTGGCCAGTGGCATGGGCTGGGCAGCCTTCAATCTCAGCAACGTGACTGGCAACAGTCGGATCCTCTGCTC
AGTGTACTGCAATGGCTCCCAGATAACAGGCTCCTCTAACATCACCGTGTACAGGCTCCCGGAGCGTGTGGAGCT
GGCACCCCTGCCTCCTTGGCAGCCGGTGGGCCAGAACTTCACCCTGCGCTGCCAAGTGGAGGATGGGTCGCCCCG
GACCAGCCTCACGGTGGTGCTGCTTCGCTGGGAGGAGGAGCTGAGCCGGCAGCCCGCAGTGGAGGAGCCAGCGGA
GGTCACTGCCACTGTGCTGGCCAGCAGAGACGACCACGGAGCCCCTTTCTCATGCCGCACAGAACTGGACATGCA
GCCCCAGGGGCTGGGACTGTTCGTGAACACCTCAGCCCCCCGCCAGCTCCGAACCTTTGTCCTGCCCGTGACCCC
CCCGCGCCTCGTGGCCCCCCGGTTCTTGGAGGTGGAAACGTCGTGGCCGGTGGACTGCACCCTAGACGGGCTTTT
TCCAGCCTCAGAGGCCCAGGTCTACCTGGCGCTGGGGGACCAGATGCTGAATGCGACAGTCATGAACCACGGGGA
CACGCTAACGGCCACAGCCACAGCCACGGCGCGCGCGGATCAGGAGGGTGCCCGGGAGATCGTCTGCAACGTGAC
CCTAGGGGGCGAGAGACGGGAGGCCCGGGAGAACTTGACGGTCTTTAGCTTCCTAGGACCCATTGTGAACCTCAG
CGAGCCCACCGCCCATGAGGGGTCCACAGTGACCGTGAGTTGCATGGCTGGGGCTCGAGTCCAGGTCACGCTGGA
CGGAGTTCCGGCCGCGGCCCCGGGGCAGCCAGCTCAACTTCAGCTAAATGCTACCGAGAGTGACGACGGACGCAG
CTTCTTCTGCAGTGCCACTCTCGAGGTGGACGGCGAGTTCTTGCACAGGAACAGTAGCGTCCAGCTGCGAGTCCT
GTATGGTCCCAAAATTGACCGAGCCACATGCCCCCAGCACTTGAAATGGAAAGATAAAACGAGACACGTCCTGCA
GTGCCAAGCCAGGGGCAACCCGTACCCCGAGCTGCGGTGTTTGAAGGAAGGCTCCAGCCGGGAGGTGCCGGTGGG
GATCCCGTTCTTCGTCAACGTAACACATAATGGTACTTATCAGTGCCAAGCGTCCAGCTCACGAGGCAAATACAC
CCTGGTCGTGGTGATGGACATTGAGGCTGGGAGCTCCCACTTTGTCCCCGTCTTCGTGGCGGTGTTACTGACCCT
GGGCGTGGTGACTATCGTACTGGCCTTAATGTACGTCTTCAGGGAGCACCAACGGAGCGGCAGTTACCATGTTAG
GGAGGAGAGCACCTATCTGCCCCTCACGTCTATGCAGCCGACAGAAGCAATGGGGGAAGAACCGTCCAGAGCTGA
GTGACGCTGGGATCCGGGATCAAAGTTGGCGGGGGCTTGGCTGTGCCCTCAGATTCCGCACCAATAAAGCCTTCA
AACTCCCT

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FIGURE 334A

GACGCGGGCGCGGAAGGAGCGCGGCCGGAGGTCCTCAGGAAGAAGCCGCGGGGACTGGCTGCGCTTGACAGGCTG
CACTTGGATGGGAGCACCTGGTGCCTCGGGACTGCTCCGATGCCCGGGTCTGTGCTGAATGTGTAATATGCGGAA
CTATATTGAAACATTACAACCATCTTTTGATGGCAACACCCTGAGGACCTCCCTTTTCCAGATGGGGAAACTGAG
GCCCAGAATTGCTAAGTGGCTTGCTTGAGTTGACACAGGGAGCTCCAGGACTCACCCTCAGCTGAGCCACCTGCC
GGGAGC**ATG**CCTCTGCGCCACTGGGGGATGGCCAGGGGCAGTAAGCCCGTTGGGGATGGAGCCCAGCCCATGGCT
GCCATGGGAGGCCTGAAGGTGCTTCTGCACTGGGCTGGTCCAGGCGGCGGGGAGCCCTGGGTCACTTTCAGTGAG
TCATCGCTGACAGCTGAGGAAGTCTGCATCCACATTGCACATAAAGTTGGTATCACTCCTCCTTGCTTCAATCTC
TTTGCCCTCTTCGATGCTCAGGCCCAAGTCTGGTTGCCCCCAAACCACATCCTAGAGATCCCCAGAGATGCAAGC
CTGATGCTATATTTCCGCATAAGGTTTTATTTCCGGAACTGGCATGGCATGAATCCTCGGGAACCGGCTGTGTAC
CGTTGTGGGCCCCCAGGAACCGAGGCATCCTCAGATCAGACAGCACAGGGGATGCAACTCCTGGACCCAGCCTCA
TTTGAGTACCTCTTTGAGCAGGGCAAGCATGAGTTTGTGAATGACGTGGCATCACTGTGGGAGCTGTCGACCGAG
GAGGAGATCCACCACTTTAAGAATGAGAGCCTGGGCATGGCCTTTCTGCACCTCTGTCACCTCGCTCTCCGCCAT
GGCATCCCCCTGGAGGAGGTGGCCAAGAAGACCAGCTTCAAGGACTGCATCCCGCGCTCCTTCCGCCGGCATATC
CGGCAGCACAGCGCCCTGACCCGGCTGCGCCTTCGGAACGTCTTCCGCAGGTTCCTGCGGGACTTCCAGCCGGGC
CGACTCTCCCAGCAGATGGTCATGGTCAAATACCTAGCCACACTCGAGCGGCTGGCACCCCGCTTCGGCACAGAG
CGTGTGCCCGTGTGCCACCTGAGGCTGCTGGCCCAGGCCGAGGGGGAGCCCTGCTACATCCGGGACAGTGGGGTG
GCCCCTACAGACCCTGGCCCTGAGTCTGCTGCTGGGCCCCCAACCCACGAGGTGCTGGTGACAGGCACTGGTGGC
ATCCAGTGGTGGCCAGTAGAGGAGGAGGTGAACAAGGAGGAGGGTTCTAGTGGCAGCAGTGGCAGGAACCCCCAA
GCCAGCCTGTTTGGGAAGAAGGCCAAGGCTCACAAGGCAGTCGGCCAGCCGGCAGACAGGCCGCGGGAGCCACTG
TGGGCCTACTTCTGTGACTTCCGGGACATCACCCACGTGGTGCTGAAAGAGCACTGTGTCAGCATCCACCGGCAG
GACAACAAGTGCCTGGAGCTGAGCTTGCCTTCCCGGGCTGCGGCGCTGTCCTTCGTGTCGCTGGTGGACGGCTAT
TTCCGCCTGACGGCCGACTCCAGCCACTACCTGTGCCACGAGGTGGCTCCCCCACGGCTGGTGATGAGCATCCGG
GATGGGATCCACGGACCCCTGCTGGAGCCATTTGTGCAGGCCAAGCTGCGGCCCGAGGACGGCCTGTACCTCATT
CACTGGAGCACCAGCCACCCCTACCGCCTGATCCTCACAGTGGCCCAGCGTAGCCAGGCACCAGACGGCATGCAG
AGCTTGCGGCTCCGAAAGTTCCCCATTGAGCAGCAGGACGGGGCCTTCGTGCTGGAGGGCTGGGGCCGGTCCTTC
CCCAGCGTTCGGGAACTTGGGGCTGCCTTGCAGGGCTGCTTGCTGAGGGCCGGGGATGACTGCTTCTCTCTGCGT
CGCTGTTGCCTGCCCCAACCAGGAGAAACCTCCAATCTCATCATCATGCGGGGGGCTCGGGCCAGCCCCAGGACA
CTCAACCTCAGCCAGCTCAGCTTCCACCGGGTTGACCAGAAGGAGATCACCCAGCTGTCCCACTTGGGCCAGGGC
ACAAGGACCAACGTGTATGAGGGCCGCCTGCGAGTGGAGGGCAGCGGGGACCCTGAGGAGGGCAAGATGGATGAC
GAGGACCCCCTCGTGCCTGGCAGGGACCGTGGGCAGGAGCTACGAGTGGTGCTCAAAGTGCTGGACCCTAGTCAC
CATGACATCGCCCTGGCCTTCTACGAGACAGCCAGCCTCATGAGCCAGGTCTCCCACACGCACCTGGCCTTCGTG
CATGGCGTCTGTGTGCGCGGCCCTGAAAATATCATGGTGACAGAGTACGTGGAGCACGGACCCCTGGATGTGTGG
CTGCGGAGGGAGCGGGGCCATGTGCCCATGGCTTGGAAGATGGTGGTGGCCCAGCAGCTGGCCAGCGCCCTCAGC
TACCTGGAGAACAAGAACCTGGTTCATGGTAATGTGTGTGGCCGGAACATCCTGCTGGCCCGGCTGGGGTTGGCA
GAGGGCACCAGCCCCTTCATCAAGCTGAGTGATCCTGGCGTGGGCCTGGGCGCCCTCTCCAGGGAGGAGCGGGTG
GAGAGGATCCCCTGGCTGGCCCCCGAATGCCTACCAGGTGGGGCCAACAGCCTAAGCACCGCCATGGACAAGTGG
GGGTTTGGCGCCACCCTCCTGGAGATCTGCTTTGACGGAGAGGCCCCTCTGCAGAGCCGCAGTCCCTCCGAGAAG
GAGCATTTCTACCAGAGGCAGCACCGGCTGCCCGAGCCCTCCTGCCCACAGCTGGCCACACTCACCAGCCAGTGT
CTGACCTATGAGCCAACCCAGAGGCCATCATTCCGCACCATCCTGCGTGACCTCACCCGGCTGCAGCCCCACAAT
CTTGCTGACGTCTTGACTGTGAACCCGGACTCACCGGCGTCGGACCCTACGGTTTTCCACAAGCGCTATTTGAAA
AAGATCCGAGATCTGGGCGAGGGTCACTTCGGCAAGGTCAGCTTGTACTGCTACGATCCGACCAACGACGGCACT
GGCGAGATGGTGGCGGTGAAAGCCCTCAAGGCAGACTGCGGCCCCCAGCACCGCTCGGGCTGGAAGCAGGAGATT
GACATTCTGCGCACGCTCTACCACGAGCACATCATCAAGTACAAGGGCTGCTGCGAGGACCAAGGCGAGAAGTCG
CTGCAGCTGGTCATGGAGTACGTGCCCCTGGGCAGCCTCCGAGACTACCTGCCCCGGCACAGCATCGGGCTGGCC
CAGCTGCTGCTCTTCGCCCAGCAGATCTGCGAGGGCATGGCCTATCTGCACGCGCAGCACTACATCCACCGAGAC
CTAGCCGCGCGCAACGTGCTGCTGGACAACGACAGGCTGGTCAAGATCGGGGACTTTGGCCTAGCCAAGGCCGTG
CCCGAAGGCCACGAGTACTACCGCGTGCGCGAGGATGGGGACAGCCCCGTGTTCTGGTATGCCCCAGAGTGCCTG
AAGGAGTATAAGTTCTACTATGCGTCAGATGTCTGGTCCTTCGGGGTGACCCTGTATGAGCTGCTGACGCACTGT

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FIGURE 334B

GACTCCAGCCAGAGCCCCCCCACGAAATTCCTTGAGCTCATAGGCATTGCTCAGGGTCAGATGACAGTTCTGAGA
CTCACTGAGTTGCTGGAACGAGGGGAGAGGCTGCCACGGCCCGACAAATGTCCCTGTGAGGTCTATCATCTCATG
AAGAACTGCTGGGAGACAGAGGCGTCCTTTCGCCCAACCTTCGAGAACCTCATACCCATTCTGAAGACAGTCCAT
GAGAAGTACCAAGGCCAGGCCCCTTCAGTGTTCAGCGTGTGCTGAGGCACAATGGCAGCCCTGCCTGGGAGGACT
GGACCAGGCAGTGGCTGCAGAGGGAGCCTCCTGCTCCCTGCTCCAGGATGAAACCAAGAGGGGGATGTCAGCCTC
ACCCACACCGTGTGCCTTACTCCTGTCTAGAGACCCCACCTCTGTGAACTTATTTTTCTTTCTTGGCCGTGAGCC
TAACCATGATCTTGAGGGACCCAACATTTGTAGGGGCACTAATCCAGCCCTTAAATCCCCCAGCTTCCAAACTTG
AGGCCCACCATCTCCACCATCTGGTAATAAACTCATGTTTTCTCTGCTGG

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FIGURE 335

CGCTCCTAGTCTCCACTGCTGCCGCCGTCGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGT
GGACTACAGCGTGTGGGACCACATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAG
TCTCTTCCGCTGGCGGCATCAGGCCCGGGTGGAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAACTGGACAG
GGGCTGCCGCGAGTGCAAGCGCAAGGTGGCCGAGTGCCAGAGGAAACTGAAGGAGCTGGAGGTGGCCGAGGGCGG
CAAGGCAGAGCTGGAGCGCCTGCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCT
GGAGGAGATGCGCAAGAAGGAGAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAG
CATGGTAAATACCAAGCCCGAGAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGT
GGAAAAATACGAGAAACAGATCAAGCACTTTGGTGAGTGGGGCTTGTGGGTTATGGGGGGCAAGGTCGAGGCAGG
CCCTTTGCCTCCAGGGCCCTCCAGCACCTTGCCAGCATCTTCCCACAGGC**ATG**CTTCGCCGCTGGGATGACAGCC
AAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGAGGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACC
TAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGTGGCCCACCAGACAATCGTCATGCAATTTATCCTGGAGC
TGGCCAAGAGCCTAAAGGTGGACCCCCGGGCCTGCTTCCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCC
AGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTTCAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCG
AGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAAGAAGCGGCTCGGCCCCGGCGGCCTGGACCCCGTCGAGG
TCTACGAGTCCCTCCCTGAGGAACTCCAGAAGTGCTTCGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCA
GCAAGATGGACCCCACCGACGCAAAGTACCACATGCAGCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTA
AGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCCTGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCG
ATGAGAAGGATGTCAGTGTG**TGA**CCTGCCCCAGCTACCACCGCCACCTGCTTCCAGGCCCCTATGTGCCCCTTTT
CAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGACTTCCTCTACTTGCGCTGCTCGGCCCAGCCTGGGGGGCC
CGCCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTCTCCAGCGCCCATTCAAGTCTCTGCTTTGAGTCAAGGGG
CTTCACTGCCTGCAGCCCCCCATCAGCATTATGCCAAAGGCCCGGGGGTCCGGGGAAGGGCAGAGGTCACCAGGC
TGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAGGGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTC
GTCTGCTGTCTGTGTCTTCTATTTGGCAAACAGCAATGATCTTCCAATAAAAGATTTCAGATGCTCTCTGGGCTG
CTGGGAGGGCCGTTCA

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FIGURE 336A

CGGCCGGGCGCACCCGCGGGGCCCTGGGCTCGCTGGCTTGCGCGCAGCTGAGCGGGGTGTAGGTTGGAAGGGCCA
GGGCCCCCTGGGGCGCAAGTGGGGGCCGGCGCCATGGAACCCCCGACCGTCCCCTCGGAAAGGAGCCTGTCTCTG
TCACTGCCCGGGCCCCGGGAGGGCCAGGCCACCCTGAAGCCTCCCCCGCAGCACCTGTGGCGGCAGCCTCGGACC
CCCATCCGTATCCAGCAGCGCGGCTACTCCGACAGCGCGGAGCGCGCCGAGCGGGAGCGGCAGCCGCACCGGCCC
ATAGAGCGCGCCGATGCCATGGACACCAGCGACCGGCCCGGCCTGCGCACGACCCGCATGTCCTGGCCCTCGTCC
TTCCATGGCACTGGCACCGGCAGCGGCGGCGCGGGCGGAGGCAGCAGCAGGCGCTTCGAGGCAGAGAATGGGCCG
ACACCATCTCCTGGCCGCAGCCCCCTGGACTCGCAGGCGAGCCCAGGACTCGTGCTGCACGCCGGGGCGGCCACC
AGCCAGCGCCGGGAGTCCTTCCTGTACCGCTCAGACAGCGACTATGACATGTCACCCAAGACCATGTCCCGGAAC
TCATCGGTCACCAGCGAGGCGCACGCTGAAGACCTCATCGTAACACCATTTGCTCAGGTGCTGGCCAGCCTCCGG
AGCGTCCGTAGCAACTTCTCACTCCTGACCAATGTGCCCGTTCCCAGTAACAAGCGGTCCCCGCTGGGCGGCCCC
ACCCCTGTCTGCAAGGCCACGCTGTCAGAAGAAACGTGTCAGCAGTTGGCCCGGGAGACTCTGGAGGAGCTGGAC
TGGTGTCTGGAGCAGCTGGAGACCATGCAGACCTATCGCTCTGTCAGCGAGATGGCCTCGCACAAGTTCAAAAGG
ATGTTGAACCGTGAGCTCACACACCTGTCAGAAATGAGCAGGTCCGGAAACCAGGTCTCAGAGTACATTTCCACA
ACATTCCTGGACAAACAGAATGAAGTGGAGATCCCATCACCCACGATGAAGGAACGAGAAAAACAGCAAGCGCCG
CGACCAAGACCCTCCCAGCCGCCCCCGCCCCCTGTACCACACTTACAGCCCATGTCCCAAATCACAGGGTTGAAA
AAGTTGATGCATAGTAACAGCCTGAACAACTCTAACATTCCCCGATTTGGGGTGAAGACCGATCAAGAAGAGCTC
CTGGCCCAAGAACTGGAGAACCTGAACAAGTGGGGCCTGAACATCTTTTGCGTGTCGGATTACGCTGGAGGCCGC
TCACTCACCTGCATCATGTACATGATATTCCAGGAGCGGGACCTGCTGAAGAAATTCCGCATCCCTGTGGACACG
ATGGTGACATACATGCTGACGCTGGAGGATCACTACCACGCTGACGTGGCCTACCATAACAGCCTGCACGCAGCT
GACGTGCTGCAGTCCACCCACGTACTGCTGGCCACGCCTGCACTAGATGCAGTGTTCACGGACCTGGAGATTCTC
GCCGCCCTCTTCGCGGCTGCCATCCACGATGTGGATCACCCTGGGGTCTCCAACCAGTTCCTCATCAACACCAAT
TCGGAGCTGGCGCTCATGTACAACGATGAGTCGGTGCTCGAGAATCACCACCTGGCCGTGGGCTTCAAGCTGCTG
CAGGAGGACAACTGCGACATCTTCCAGAACCTCAGCAAGCGCCAGCGGCAGAGCCTACGCAAGATGGTCATCGAC
ATGGTGCTGGCCACGGACATGTCCAAGCACATGACCCTCCTGGCTGACCTGAAGACCATGGTGGAGACCAAGAAA
GTGACCAGCTCAGGGGTCCTCCTGCTAGATAACTACTCCGACCGCATCCAGGTCCTCCGGAACATGGTGCACTGT
GCCGACCTCAGCAACCCCACCAAGCCGCTGGAGCTGTACCGCCAGTGGACAGACCGCATCATGGCCGAGTTCTTC
CAGCAGGGTGACCGAGAGCGCGAGCGTGGCATGGAAATCAGCCCCATGTGTGACAAGCACACTGCCTCCGTGGAG
AAGTCTCAGGTGGGTTTTATTGACTACATTGTGCACCCATTGTGGGAGACCTGGGCGGACCTTGTCCACCCAGAT
GCCCAGGAGATCTTGGACACTTTGGAGGACAACCGGGACTGGTACTACAGCGCCATCCGGCAGAGCCCATCTCCG
CCACCCGAGGAGGAGTCAAGGGGGCCAGGCCACCCACCCCTGCCTGACAAGTTCCAGTTTGAGCTGACGCTGGAG
GAGGAAGAGGAGGAAGAAATATCAATGGCCCAGATACCGTGCACAGCCCAAGAGGCATTGACTGCGCAGGGATTG
TCAGGAGTCGAGGAAGCTCTGGATGCAACCATAGCCTGGGAGGCATCCCCGGCCCAGGAGTCGTTGGAAGTTATG
GCACAGGAAGCATCCCTGGAGGCCGAGCTGGAGGCAGTGTATTTGACACAGCAGGCACAGTCCACAGGCAGTGCA
CCTGTGGCTCCGGATGAGTTCTCGTCCCGGGAGGAATTCGTGGTTGCTGTAAGCCACAGCAGCCCCTCTGCCCTG
GCTCTTCAAAGCCCCCTTCTCCCTGCTTGGAGGACCCTGTCTGTTTCAGAGCATGCCCCGGGCCTCCCGGGCCTC
CCCTCCACGGCGGCCGAGGTGGAGGCCCAACGAGAGCACCAGGCTGCCAAGAGGGCTTGCAGTGCCTGCGCAGGG
ACATTTGGGGAGGACACATCCGCACTCCCAGCTCCTGGTGGCGGGGGGTCAGGTGGAGACCCTACCTGATCCCCA
GACCTCTGTCCCTGTTCCCCTCCACTCCTCCCCTCACTCCCCTGCTCCCCCGACCACCTCCTCCTCTGCCTCAAA
GACTCTTGTCCTCTTGTCCCTCCTGAGAAAAAAGAAAACGAAAAGTGGGGTTTTTTTCTGTTTTCTTTTTTTCCC
CTTTCCCCCTGCCCCCACCCACGGGGCCTTTTTTTGGAGGTGGGGGCTGGGGAATGAGGGGCTGAGGTCCCGGAA
GGGATTTTATTTTTTTGAATTTTAATTGTAACATTTTTAGAAAAAGAACAAAAAAAGAAAAAAAAAAGAAAGAAA
CACAGCAACTGTAGATGCTCCTGTTCCTGGTTCCCGCTTTCCACTTCCAAATCCCTCCCCTCACCTTCCCCCACT
GCCCCCCAAGTTCCAGGCTCAGTCTTCCAGCCGCCTGGGGAGTCTCTACCTGGGCCCAAGCAGGTGTGGGGCCTC
CTTCTGGGCTTTTCTTCTGAATTTAGAGGATTTCTAGAACGTGGTCAGGAATAGCCATTCTAGGCGGGGCTGGGG
CCAGGGTGGGGGGCAGTCACTGTGGGAGGTCCCAGCTCCAGCCCCCCTCTGGTTTGCTGCCTCCTCTCCCCTCTA
AAAAAGTCTTCCGCTTGATTTTGCACAATCCCGGCGATACTCCTGGCGATACTGACTAGAAAGTCAGGGAGCTGG
GGGAGCTGTTCACTTTAGGATACGGGGGTGGTATGGAAGGGAGCGTTCACACCGCCAGCCTCGGGCCTGGGATTT
GAGGAGGGCCCTAGACCTCCTCCACTCTCCATCCCCTTTCCCTTCCACTTTGGGTTCACTTTGAATTTTCTCCGT

FIGURE 336B

TTTTTGGGGCAGTGGCTCTGATCCACTCACCCCCCCGCCCC

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FIGURE 337

CGCGCAGCGATGGAGGCGCCGGGGCTCGGGCGGTGGAGGCGGAGCCGGAGCGCGGCCATGGCGGGGTCCCTGAGT
GCCAGAGGTGGTGGTGTTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCTAGCGGGGCTGGGGCCTG
CTGCCGATTCCTGCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTG
CAAGGCGGAGGTGACGCCCTCCCAGCATGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGC
CTTTGGCATCATGAACGAGCTGCGGCTCAGCCAGCAGCTGTGTGACGTCACACTGCAGGTCAAGTACCAGGATGC
ACCGGCCGCCCAGTTCATGGCCCACAAGGTGGTGCTGGCCTCATCCAGCCCTGTCTTCAAGGCCATGTTCACCAA
CGGGCTGCGGGAGCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCCAAGGTCATGGAGCGCCTCATTGA
ATTCGCCTACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCCTCCACGTCATGAACGGTGCTGTCATGTACCA
GATCGACAGCGTTGTCCGTGCCTGCAGTGACTTCCTGGTGCAGCAGCTGGACCCCAGCAATGCCATCGGCATCGC
CAACTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCATTTTGGGGA
GGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCCACTGCCAACTGGTGACCCTCATCAGCCGGGACGACCTGAA
CGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGGTCAAGTACGACTGCGAACAGCGACGGTTCTA
CGTCCAGGCGCTGCTGCGGGCCGTGCGCTGCCACTCGTTGACGCCGAACTTCCTGCAGATGCAGCTGCAGAAGTG
CGAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGATCTTCGAGGAGCTCACCCTGCACAAGCC
CACGCAGGTGATGCCCTGCCGGGCGCCCAAGGTGGGCCGCCTGATCTACACCGCGGGCGGCTACTTCCGACAGTC
GCTCAGCTACCTGGAGGCTTACAACCCCAGTGACGGCACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCGCGGAG
CGGCCTGGCCGGCTGCGTGGTGGGCGGGCTGTTGTACGCCGTGGGCGGCAGGAACAACTCGCCCGACGGCAACAC
CGACTCCAGCGCCCTGGACTGTTACAACCCCATGACCAATCAGTGGTCGCCCTGCGCCCCCATGAGCGTGCCCCG
TAACCGCATCGGGGTGGGGGTCATCGATGGCCACATCTATGCCGTCGGCGGCTCCCACGGCTGCATCCACCACAA
CAGTGTGGAGAGGTATGAGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCCAATGCTGACACGAAGGATCGGGGT
GGGCGTGGCTGTCCTCAATCGTCTCCTTTATGCCGTGGGGGGCTTTGACGGGACAAACCGCCTTAATTCAGCTGA
GTGTTACTACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGCAGGCGTCTG
CGTCCTGCACAACTGTATCTATGCTGCTGGGGGCTATGATGGTCAGGACCAGCTGAACAGCGTGGAGCGCTACGA
TGTGGAAACAGAGACGTGGACTTTCGTAGCCCCCATGAAGCACCGGCGAAGTGCCCTGGGGATCACTGTCCACCA
GGGGAGAATCTACGTCCTTGGAGGCTATGATGGTCACACGTTCCTGGACAGTGTGGAGTGTTACGACCCAGATAC
AGACACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGCTGTCACCATGGAGCCCTG
CCGGAAGCAGATTGACCAGCAGAACTGTACCTGTTGAGGCACTTTTGTTTCTTGGGCAAAAATACAGTCCAATGG
GGAGTATCATTGTTTTTGTACAAAAACCGGGACTAAAAGAAAAGACAGCACTGCAAATAACCCATCTTCCGGGAA
GGGAGGCCAGGATGCCTCAGTGTTAAAATGACATCTCAAAAGAAGTCCAAAGCGGGAATCATGTGCCCCTCAGCG
GAGCCCCGGGAGTGTCCAAGACAGCCTGGCTGGGAAAGGGGGTGTGGAAAGAGCAGGCTTCCAGGAGAGAGGCCC
CCAAACCCTCTGGCCGGGTAATAGGCCTGGGTCCCACTCACCCATGCCGGCAGCTGTCACCATGTGATTTATTCT
TGGATACCTGGGAGGGGGCCAATGGGGGCCTCAGGGGGAGGCCCCCTCTGGAAATGTGGTTCCCAGGGATGGGCC
TGTACATAGAAGCCACCGGATGGCACTTCCCCACCGGATGGACAGTTATTTTGTTGATAAGTAACCCTGTAATTT
TCCAAGGAAAATAAAGAACAGACTAACTAGTGTCTTTC

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FIGURE 338

AAGGGCCTGAAGGGGCTGTCGCGCTCCTGGCGGTGTGATAAGGAGGGCGGGGGGAGGCCGCGGGAAGGCGTCGGG
GTTTGAGGTCCCCGCCTGGCGACCCGGGATCGGGGCAGGAAAGGCGGCTGGGCGGGGAGAGGGCGGGGCGGGGCG
TCTGGCTTGGCCACGCCCACCGTCATCCGGGGTCCTGGCCCGCTAAGATGGCGATGGCTGCGGTAGCAGCGGCGG
CGGCTGTTGCCTGGCCCGGTACCCTGGGGACGGGGGCCGAGTAGCGCCTTCCCCGGGCCCCGTGAACCGGCTGCG
GGTCGCCCTTGGGGGGCAGCGGCCGCAGCCCCCCACCTGGGCCCTCGGTCCGCCCTCCCGGCGCGTCCATGAACT
CAGTGTCGCCGGCCGCCGCGCAGTACCGGAGCAGCAGCCCGGAGGACGCGCGCCGCCGGCCCGAGGCCCGCAGGC
CGCGGGGTCCCAGAGGCCCAGACCCCAACGGCCTGGGGCCTTCCGGAGCCAGCGGCCCCGCTCTTGGCTCTCCCG
GGGCTGGCCCGAGTGAGCCGGACGAAGTGGACAAGTTCAAGGCCAAGTTCCTGACAGCCTGGAACAACGTCAAGT
ACGGTTGGGTGGTTAAAAGCCGGACCAGCTTTAGCAAGATCTCCAGCATCCACCTCTGTGGCCGCCGCTACCGTT
TCGAGGGCGAGGGTGACATACAGCGTTTCCAGCGGGACTTTGTGTCCCGCCTGTGGCTCACATACCGCCGGGACT
TCCCGCCCCTTCCTGGGGGCTGCCTGACCTCGGACTGTGGCTGGGGGTGCATGTTACGCAGCGGCCAGATGATGC
TGGCACAGGGCCTTCTGCTGCATTTCCTGCCCAGAGACTGGACATGGGCCGAGGGCATGGGCCTGGGCCCCCCTG
AGCTGTCAGGGTCAGCCTCTCCCAGCCGGTACCATGGGCCTGCCCGCTGGATGCCCCCACGCTGGGCCCAGGGTG
CCCCTGAGCTGGAGCAGGAACGCCGGCACCGGCAGATTGTGTCCTGGTTCGCCGACCACCCCCGGGCCCCCTTTG
GCCTACACCGGCTGGTGGAGCTTGGGCAGAGCTCAGGCAAGAAGGCAGGTGACTGGTATGGGCCATCGCTAGTGG
CACACATCCTCAGGAAAGCCGTGGAGAGCTGCTCCGACGTCACCCGCCTGGTGGTGTACGTTTCTCAGGACTGCA
CAGTGTACAAGGCGGATGTGGCACGCCTGGTGGCCAGGCCAGACCCCACAGCCGAGTGGAAGTCTGTGGTCATCC
TGGTGCCCGTGCGACTGGGTGGCGAGACTCTCAACCCCGTGTATGTGCCCTGCGTGAAGGAACTCCTGCGTTGCG
AGCTGTGCCTGGGCATC**ATG**GGTGGGAAACCGCGACACTCACTGTACTTCATTGGCTACCAAGATGACTTCCTGC
TGTACCTGGACCCTCACTACTGCCAGCCCACTGTGGATGTCAGCCAGGCCGACTTCCCCCTGGAGTCCTTCCACT
GCACCTCGCCCCGCAAGATGGCCTTTGCCAAGATGGACCCAAGCTGTACCGTGGGCTTCTATGCTGGAGACAGGA
AGGAGTTTGAGACACTCTGCTCAGAGCTGACCAGGGTCCTCAGCTCCTCCTCAGCCACAGAGCGGTACCCCATGT
TCACCCTGGCCGAGGGCCATGCTCAGGACCACAGCCTGGACGACCTCTGCTCCCAGCTCGCCCAGCCCACACTCC
GGCTCCCTCGCACAGGGCGGCTCCTCAGGGCCAAACGCCCCAGCTCTGAGGACTTTGTGTTTTTA**TAA**AGGGAGG
GGATGAGGGGAAAGATACAACACTATTTATTTTTTTATTTATGTCATGTCGGGTGTGGGATCTTGAGCTCTGGCA
GTGATGATGGTACTTCCTGTTGTCAGCCCCTCAAGCCCAGCTGCAACCAGTCTGGGGCCATTCAGCCAGGGACAG
AGCCCACAGAGCCCATACACCTGTCTCCCACCAGCGGGGCCCTCCTGGCAGGGTAGGGAAGGAGGACCCCGGGCA
CCCCCCTCAGGGCCTGACTCACGTACTGTAGTTTGCACTGGACGCCCGGGCCCTCCCTGTCCCAAAGCCCCCTTG
GGGGAACTGTGGCTGCTGGGGGCCAATAAAGCTGTGTAACTTG

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FIGURE 339

TTTTACAAAACGCTCTCCTTGTTGAAGAAGAAGGACCCCCGCATTTATCAGAAAGATGCCACCTTCTATAACAGA
ACAGCATCGTCATCAGACAGTGAGGAGGACCCAGAAGCCTTGGAGAAGCAGAAGAAAGTGCGGCCCATGTACCTG
AAGGACTACGAGAGGAAGGTTATCTTGGAGAAGGCAGGCAAATATGTTGATGAGGAGAACTCAGACGGGGAGACT
TCCAATCACAGACTCCAGGAGACATCGTCGCAAAGTTATGTGGAGGAACAGAAACAGCTCAAGGAAAGCTTCCGG
GCATTTGTGGAGGACAGTGAGGACGAGGACGGCGCTGGGGAGGGCGGCTCCAGTTTGCTGCAGAAACGTGCCAAA
ACCAGGCAGGAGAAGGCCCAGGAGGAGGCCGACTACATCGAGTGGCTGAAGGGACAGAAAGAGATTCGGAACCCA
GATTCCCTGAAGGAACTGACGCATCTCAAGGAATACTGGAACGACCCTGAGTTGGATGAAGGGGAGCGGTTCCTG
CGGGATTACATCCTCAACAAACGCTATGAGGAGGAGGAAGAGGAGGAGGAAGATGAAGAGGAAATGGAGGAAGAG
GAGGGGGTCCACGGTCCCCCAGTCCAGCTGGCTGTGGACGACTCCTCAGACGAAGGGGAGCTGTTTCTGAAGAAA
CAGGAGGACTTTGAACAGAAGTACAATTTCCGTTTCGAGGAGCCGGACTCAGCATCGGTCAAGACCTACCCACGC
AGCATCGCGTCCTCCGTGCGCCGTAAGGATGAGCGCAGAAAGGAGAAGAGGGAAGAGACTCGGGAGCGAAAGAAG
AGGGAGAAAGCAAAGAAGCAGGAAGAGCTCAAGCAGCTGAAGAACCTGAAGAGGAAGGAGATTCTGGCCAAGCTG
GAGAAGCTGCGGAAAGTAACAGGCAACGAGATGCTGGGCCTCGAGGAGGGGGACCTTGAAGACGACTTCGACCCT
GCCCAGCACGACCAGCTCATGCAGAAGTGCTTTGGGGACGAGTACTACGGGGCCGTGGAGGAGGAGAAGCCACAA
TTTGAGGAAGAAGAAGGGCTTGAAGACGACTGGAACTGGGACACGTGGGACGGGCCTGAGCAGGAGGGAGACTGG
AGCCAGCAGGAGCTGCACTGTGAGGACCCCAACTTCAACATGGACGCCGACTACGACCCCAGCCAGCCGAGGAAG
AAAAAGCGCGAGGCCCCCTTGACGGGCAAGAAGAAGCGCAAGTCGCCCTTCGCCGCGGCCGTGGGGCAGGAGAAG
CCCGTGTTTGAACCCGGGGACAAGACGTTCGAGGAGTACCTGGATGAGTATTACCGGCTGGACTACGAGGACATC
ATCGACGACCTGCCCTGTCGCTTCAAGTACCGCACAGTGGTGCCCTGTGACTTTGGCCTCAGCACTGAGGAGATC
CTCGCTGCTGACGATAAGGAGCTGAACCGGTGGTGCTCCCTAAAGAAGACCTGCATGTACAGGTCAGAGCAGGAG
GAGCTGCGGGACAAGCGGGCGTACAGCCAGAAGGCCCAGAACTCATGGAAAAAGCGGCAGGTCTTCAAGTCACTC
TGCCGAGAAGAGGCAGAGACACCTGCGGAAGCCACAGGGAAGCCACAGAGAGATGAAGCCGGCCCACAGAGGCAG
CTGCCAGCCCTTGATGGCAGCTTGATGGGGCCGGAGAGTCCCCCAGCACAGGAAGAGGAAGCCCCTGTATCACCC
CACAAGAAGCCAGCCCCCCAGAAGCGGAGGAGGGCCAAGAAGGCACGGCTGCTGGGCCCCACTGTGATGCTTGGT
GGATGCGAGTTCAGCCGCCAGAGACTGCAGGCCTTTGGCCTCAACCCCAAACGGCTGCACTTCCGCCAGCTGGGC
CGGCAGCGGAGGAAACAACAGGGGCCCAAGAACAGCTCCTGAGCACCAGGGAGCAGGCAGGGGCCTCAGGCTCCT
CTCCTCAAATCAAGCCCTGGACAGGTCTCGCACCCACAAGTACTATCTGCTGCAGAGATCCTCTCATCTGTGGCC
AGGCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGAAAGGATCACTTGAGCCCAGGAATTGGAGACCAGC
GTGGGCAACTTAGCGAGACTCCATCTCTACAAAATGTGGTGACACATGCCTGTAGTCCCAGCTACTCAGGAGGCT
GGGGAAGGAAGATCACTTAAGGCCATGAGTTTGAGGCTACAGAGAGCTATGATTGCACCACTGCACTCCAGCCTG
GGCAACAAAGCAAGACCCTGTCTCTTG

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FIGURE 340

GGAGGGAGGGTGAGTTAGGGGGAGACCCGGCCCCCAAGGGGCGGGCGCCGGGCAGGGCCCCGCGGGCGGCCGAGG
GTTGGGCCCGGCTCCCAGCCCCTCGCCGTCCTCCGGCTGACAGGGGGAGGAGCCCGCCGGGAGGGCCGGGGTCTC
GGGCTGGGGAGCCGGGACGGGAGAGCAGCGCAGCCGGGTGCACCGCGGCCGCGCCCCGGGAGGGCTGTTCGGGCC
AGCGCCCGCCGGCTGCTCCGCGCTGACAGCGCCGGGCTGGGGCGGGGCGGGGGGCTTTGCAGGCCGCCAGTGTCG
ACATGCTGCTGGAGGAGGTTCGCGCCGGCGACCGGCTGAGTGGGGCGGCGGCCCGGGGCGACGTGCAGGAGGTGC
GCCGCCTTCTGCACCGGGAGCTGGTGCATCCCGACGCCCTCAACCGCTTCGGCAAGACGGCGCTGCAGGTCATGA
TGTTTGGCAGCACCGCCATCGCCCTGGAGCTGCTGAAGCAAGGTGCCAGCCCCAATGTCCAGGACACCTCCGGTA
CCAGTCCAGTCCATGACGCAGCCCGCACTGGATTCCTGGACACCCTGAAGGTCCTAGTGGAGCACGGGGCTGATG
TCAACGTGCCTGATGGCACCGGGGCACTTCCAATCCATCTGGCAGTTCAAGAGGGTCACACTGCTGTGGTCAGCT
TTCTGGCAGCTGAATCTGATCTCCATCGCAGGGACGCCAGGGGTCTCACACCCTTGGAGCTGGCACTGCAGAGAG
GGGCTCAGGACCTCGTGGACATCCTGCAGGGCCACATGGTGGCCCCGCTGTGATCTGGGGTCACCCTCTCCAGCA
AGAGAACCCCGTGGGGTTATGTATCAGAAGAGAGGGGAAGAAACACTTTCTCTTCTTGTTTCTCCTGCCCACTGC
TGCAGTAGGGGAGGAGCACAGTTTGTGGCTTATAGGTGTTGGTTTTGGGGGTGTGAGTGTTTGGGGGACGTTTCT
CATTTGTTTTTCTCACTCCTTTTGGTGTGTTGGACAGAGAAGGGCTCCTGCAGGCCACAGCCACCTAAACGGTTC
AGTTTCTTCTGCGCCTCAGGCTGCTGGGGCCTCAGACGAGACCCAAGGGCAGAGCATTTAAGAGTGAAGTCATGA
CCTCCAGGGAGCCTAGAAGCTGGTGGCCTTGGCCGGCTGTGCTCAGAGACCTGAAGTGTGCACGTTGCTTCAGGC
ATGGGGGGTGGGGGGAGCGTCCCAAATCAATAAGAAGGTAGAATGAGTTATGAGTTATTCATATTCTGTTGGAAG
CTTGTTTTCCAGTCTCTTGTACAGCGTTTTAAAAGAAATGGATTCTATTTATTATGCTTTATTGGAAAAAATGTT
GTAATAATTTAATGTTTTTACCCATTAAATTAAGACTTGTGCATGATC

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FIGURE 341

GGCGCTTCCGCAGGAAGAAGGAAGCGGCGCCGCCATCGCCTCCCGGCGCTCCCTCCCCGACTCCTAAGTCCTTCG
GCCGCCACCATGTCCGCCTCGGCTGTCTTCATTCTGGACGTTAAGGGCAAGCCATTGATCAGCCGCAACTACAAG
GGCGATGTGGCCATGAGCAAGATTGAGCACTTCATGCCTTTGCTGGTACAGCGGGAGGAGGAAGGCGCCCTGGCC
CCGCTGCTGAGCCACGGCCAGGTCCACTTCCTATGGATCAAACACAGCAACCTCTACTTGGTGGCCACCACATCG
AAGAATGCCAATGCCTCCCTGGTGTACTCCTTCCTGTATAAGACAATAGAGGTATTCTGCGAATACTTCAAGGAG
CTGGAGGAGGAGAGCATCCGGGACAACTTTGTCATCGTCTACGAGTTGCTGGACGAGCTCATGGACTTTGGCTTC
CCGCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCA
CGGGTGCCACCCACTGTCACCAACGCTGTGTCCTGGCGCTCCGAGGGTATCAAGTATAAGAAGAACGAGGTCTTC
ATTGATGTCATAGAGTCTGTCAACCTGCTGGTCAATGCCAACGGCAGCGTCCTTCTGAGCGAAATCGTCGGTACC
ATCAAGCTCAAGGTGTTTCTGTCAGGAATGCCAGAGCTGCGGCTGGGCCTCAATGACCGCGTGCTCTTCGAGCTC
ACTGGCCGCAGCAAGAACAAATCAGTAGAGCTGGAGGATGTAAAATTCCACCAGTGCGTGCGGCTCTCTCGCTTT
GACAACGACCGCACCATCTCCTTCATCCCGCCTGATGGTGACTTTGAGCTCATGTCATACCGCCTCAGCACCCAG
GTCAAGCCACTGATCTGGATTGAGTCTGTCATTGAGAAGTTCTCCCACAGCCGCGTGGAGATCATGGTCAAGGCC
AAGGGGCAGTTTAAGAAACAGTCAGTGGCCAACGGTGTGGAGATATCTGTGCCTGTACCCAGCGATGCCGACTCC
CCCAGATTCAAGACCAGTGTGGGCAGCGCCAAGTATGTGCCGGAGAGAAACGTCGTGATTTGGAGTATTAAGTCT
TTCCCGGGGGGCAAGGAGTACTTGATGCGAGCCCACTTTGGCCTCCCCAGTGTGGAAAAGGAAGAGGTGGAGGGC
CGGCCCCCCATCGGGGTCAAGTTTGAGATCCCCTACTTCACCGTCTCTGGGATCCAGGTCCGATACATGAAGATC
ATTGAGAAAAGTGGTTACCAGGCCCTGCCCTGGGTTCGCTACATCACCCAGAGTGGCGATTACCAACTTCGTACC
AGCTAGAAGGGAGAAGAGATGGGGGCTTGAACACGGGGCTTCCTTACAGCCCCGGATGCAGATTTTAGAGGGAGG
GCAGGTGCGGGCTGTGTGTGTCTGTGTGAGGGCAGGTCCTGGACTTGGCAGTTTCTTGCTCCCAGCACCCGCCCC
TTCCTCACCTCTTCCTTATTCCATAGGCTGGGAGAGAAACTCTCTCTGCTTCCCTCGCCCTTGGAGCTTTCCCCA
TCCCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGAAGTCCTCCTCGCGAGTGCCTTCTTGCAATTACCTG
CCTTAGCGGGTGTTGCGGGTCCCTCCTTCACAGCCGCTGAGCCCAGAGGTCCCGCTGGCCCCTCCTCTGAATTTT
AGGATGTCATTAAAAAGATGAATCTA

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FIGURE 342

ATGGGGGACGAGCGGCCCCACTACTACGGGAAACACGGAACGCCACAGAAGTATGATCCCACTTTCAAAGGACCC
ATTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTCCTGCTCCTGGCCATTGTGGGCTACGTGGCTGTA
GGCATCATAGCCTGGACTCATGGAGACCCTCGAAAGGTGATCTACCCCACTGACAGCCGGGGCGAGTTCTGCGGG
CAGAAGGGCACAAAAAACGAGAACAAACCCTATCTGTTTTATTTCAACATTGTGAAATGTGCCAGCCCCCTGGTT
CTGCTGGAATTCCAATGTCCCACTCCCCAGATCTGCGTGGAAAAATGCCCCGACCGCTACCTCACGTACCTGAAT
GCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTCCTGGCTTCAAGAACAATAAAGGAGTGGCT
GAGGTGCTTCAAGATGGTGACTGCCCTGCTGTCCTCATCCCCAGCAAACCCTTGGCCCGGAGATGCTTCCCCGCT
ATCCACGCCTACAAGGGTGTCCTGATGGTGGGCAATGAGACGACCTATGAGGATGGGCATGGCTCCCGGAAAAAC
ATCACAGACCTGGTGGAGGGCGCCAAGAAAGCCAATGGAGTCCTAGAGGCGCGGCAACTCGCCATGCGCATATTT
GAAGATTACACCGTCTCTTGGTACTGGATTATCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTCATC
ATCCTGCTTCGCTTCCTGGCTGGTATTATGGTCTGGGTGATGATCATCATGGTGATTCTGGTGCTGGGCTACGGA
ATATTTCACTGCTACATGGAGTACTCCCGACTGCGTGGTGAGGCCGGCTCTGATGTCTCTTTGGTGGACCTCGGC
TTTCAGACGGATTTCCGGGTGTACCTGCACTTACGGCAGACCTGGTTGGCCTTTATGATCATTCTGAGTATCCTT
GAAGTCATTATCATCTTGCTGCTCATCTTTCTCCGGAAGAGAATTCTCATCGCGATTGCACTCATCAAAGAAGCC
AGCAGGGCTGTGGGATACGTCATGTGCTCCTTGCTCTACCCACTGGTCACCTTCTTCTTGCTGTGCCTCTGCATC
GCCTACTGGGCCAGCACTGCTGTCTTCCTGTCCACTTCCAACGAAGCGGTCTATAAGATCTTTGATGACAGCCCC
TGCCCATTTACTGCGAAAACCTGCAACCCAGAGACCTTCCCCTCCTCCAATGAGTCCCGCCAATGCCCCAATGCC
CGTTGCCAGTTCGCCTTCTACGGTGGTGAGTCGGGCTACCACCGGGCCCTGCTGGGCCTGCAGATCTTCAATGCC
TTCATGTTCTTCTGGTTGGCCAACTTCGTGCTGGCGCTGGGCCAGGTCACGCTGGCCGGGGCCTTTGCCTCCTAC
TACTGGGCCCTGCGCAAGCCGGACGACCTGCCGGCCTTCCCGCTCTTCTCTGCCTTTGGCCGGGCGCTCAGGTAC
CACACAGGCTCCCTGGCCTTTGGCGCGCTCATCCTGGCCATTGTGCAGATCATCCGTGTGATACTCGAGTACCTG
GATCAGCGGCTGAAAGCTGCAGAGAACAAGTTTGCCAAGTGCCTCATGACCTGTCTCAAATGCTGCTTCTGGTGC
CTGGAGAAGTTCATCAAATTCCTTAATAGGAATGCCTACATCATGATTGCCATCTACGGCACCAATTTCTGCACC
TCGGCCAGGAATGCCTTCTTCCTGCTCATGAGAAACATCATCAGAGTGGCTGTCCTGGATAAAGTTACTGACTTC
CTCTTCCTGTTGGGCAAACTTCTGATCGTTGGTAGTGTGGGGATCCTGGCTTTCTTCTTCTTCACCCACCGTATC
AGGATCGTGCAGGATACAGCACCACCCCTCAATTATTACTGGGTTCCTATACTGACGGTGATCGTTGGCTCCTAC
TTGATTGCACACGGTTTCTTCAGCGTCTATGGCATGTGTGTGGACACGCTGTTCCTCTGCTTCTTGGAGGACCTG
GAGAGGAATGACGGCTCGGCCGAGAGGCCTTACTTCATGTCTTCCACCCTCAAGAAACTCTTGAACAAGACCAAC
AAGAAGGCAGCGGAGTCCTGA

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FIGURE 343

GACCGGGGGCGAGCGGGCGGGCGGGCAGGCGCGCGCCGGGGAGGTGCGGGAACACGTGACCGGCTGAAGCCCCGC
CCCCTTTGACGCCGCGTTGCGCCTCGACGCAGGCCCAACCCAAATGGGAGGGAGGGGCGAAAAGAGATAAGGGGG
GGGCTGAGGGGGTGGGCGTGAGTTGCACGTGGTGCAAGCGGGAGTGTTTGCGTGCGTAGTCACGTGACTTCGGCA
CCTTTCCCTCCGCTTTCGATAGGTTGCTCCATCATGTGACAATGGCGAATTTCGCGGTTTCCTTCGCCATCTGAC
AACTTTTGGCGCCTTCCCTTTGCCGTACTGGGAGTCCTCCATCACGTGACGAGGGCACGCTCTGGTTTTCGCTAA
GGCGTTTTTTGAGCGGCCATTACCACGTGATGCAAGGCAAGCGTCAGAGGCGGAGCCTCCCTACGGCTGCGACAT
TTTGCGCCTGCGCGGCCGCCATCTTACGCCCGTCGCCCTGAGTACGTTAGCGGAAATGGCTCCGAGAGGCTTTGA
CGCATGTGTACCTTTTTAGTGGCGGTATCTCGGCCGGGGATTTTCGGGCTCCAGTGGAGGTGGCTATGCTCACCC
CATCTCCCTTGAGAGGCACAGAAGGTTAGAGATGTGTGCGAGGAACGGCCAGGTCCAGCGTCTCCTCGTTGCTGC
CCCTTGAGCCCGGGACCGGCGCCAATGCGCGCCCGGGTTCTTGGGTTCTTTCGTCCCGCAGACCTGCCTTGGTGT
GGCGTCCCTGGGCCGTAGCTTCCGAAGGCTGCAGCCGACCTGGTCGGGGTCCTCTAGCCCGCCTTCCCCTTCCCC
CATTGACAGATGGAGAAACTGAGGCCCAGGCCAAAAAATATCTCACTAGAGGGCTCACCGCCATTTCCTGGAAAA
ATTGGGGCTGGGACTCAACGGACGCTCGTCCAGCAGCAGCGCGGAGCTCCGAAGTAAAGGCGCCCGTGACCGAGT
GCTTTGTCCTTACAAGCGTGGTGTTCTTGAATGCTTCCAGGCGCCTTATGAGGCCCCCGATGTACAATCTGTGCT
TAACTAAACCCCACTGTCTTCCAGGGTCAGGTTGGCCATCCGCAGGCGTAGTTGCTAGGAAGGTTTGACAGATGT
CCGCCTGTTGATTCAGACGTTCCCAGGATTTGGAGCAAGAAGAGCAAGGAAGGCCAGGCGCGGTGGCTCACGTTT
GTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAGCATG
GTGAAACCCCGTCTCTACTAAAAATACAAAAGAAAATTAGCCGGGTGTGGTGGCACATGCCTGTAGTCCCACCTA
CTTGGGAGGCTGAGGCAGGAGAATTGTTTGACCTGGCAGGCGGAGGTTGCAGTGAGCCGAGATTGCGCCACTGCA
CTCCAGTCTGGGCGACAGAGCGAGACTCTGTCTCAGAAAAAAAAAAAGAGCAAGGAGGTGTTGAAAATGGGTTTCC
TGGCTGGGCGTGGTGGCTCACGCTTGTAATCCCAGCACTTTGGGAAGCTGAGGTGGGCGGATCACTTGAGGTCAG
GAGTTTGAGACCAGCCTGGCCAACATGGTGAAACACCGTCTCCACTAAAAATAGAAAAATTAACTGGGTGTGGTG
GAGGGCGCCTGTAATCCCAGCTAATCAGGAAGCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCGGAGGTTGCA
GTGAGCCGAGATTGCTCCATTGCACTCCAGCCTGGGCGATAGAGTGAGACTCAGCCTCAAAAAAAAAAAAAAAAA
AAAATTCGCCAGGTGTGGTGGTGTGCGCCTATAATCCCAGCTACTCAGGAGGCAGAGGCACAAGAATGGCTTGAA
TCACTTGAACCTGGGAGGCAGAGGTTACAATGAGCCGAG**ATG**GCACCACTGCACTCCAGCCTGGGCGACAGAGCG
AGACTCCGACTTCCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAGAAGTGTAAAGATGTGATTATGTGGCAGGGG
GTAAGGGTTAAAAAGAAAACAAGAACAAGTTTTCCTCTGCTTAGCCAGCTTACTTCAAGGACAGTTATAACACTG
AAAAGTCGAGGCCAAAGGAATGGGCTCCAGACAGCCTCCTCCGGAGCAAAGTTGAAAAGAAAAATTCCTTTACTG
TCTCTCCTTTTC**TGA**ACCATTAAATATGACTGTTTGCCAATGGTTGTATTTAGTAAGATTTGTAGACTCTGTTTT
TCTTTTGACACAGCTGCAAGGCCAACAGCTGTGCAAAGCCACAAGTTATGCTAAGTCAGCAGTTATGCTATAGAT
TACATGACCTGTGACTGTATCATTAACTGCTTTTGTTTTGCTTCTGTAAGTTTGCCTATAAAAACCACACTCAGT
CTTTGTTCAATGGTCAGCTTTTCAGATACAAATCCACTGAGCCGGTGTACATCTAAATAAATCCTCCTGTTTCCC
GT

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FIGURE 344

GCGTCCAATGCGAATTTTTGTGAATGATGACCGCCATGTGATGGCAAAGCATTCTTCCGTTTATCCAACACAAGA
GGAGCTGGAGGCAGTCCAGAACATGGTGTCCCACACGGAGCGGGCGCTCAAAGCTGTGTCCGACTGGATAGACGA
GCAGGAAAAGGGTAGCAGCGAGCAGGCAGAGTCCGATAACATGGATGTGCCCCCAGAGGACGACAGTAAAGAAGG
GGCTGGGGAACAGAAGACGGAGCACATGACCAGAACCCTGCGGGGAGTGATGCGGGTGGGCCTGGTGGCAAAGGG
CCTCCTACTCAAGGGGGACTTGGATCTGGAGCTGGTGCTGCTGTGTAAGGAGAAGCCCACAACCGCCCTCCTGGA
CAAGGTGGCCGACAACCTGGCCATCCAGCTTGCTGCTGTAACAGAAGACAAGTACGAAATACTGCAATCTGTCGA
CGATGCTGCGATTGTGATAAAAAACACAAAAGAGCCTCCATTGTCCCTGACCATCCACCTGACATCCCCTGTTGT
CAGAGAAGAAATGGAGAAAGTATTAGCTGGAGAAACGCTATCAGTCAACGACCCCCCGGACGTTCTGGACAGGCA
GAAATGCCTTGCTGCCTTGGCGTCCCTCCGACACGCCAAGTGGTTCCAGGCCAGAGCCAACGGGCTGAAGTCTTG
TGTCATTGTGATCCGGGTCTTGAGGGACCTGTGCACTCGCGTGCCCACCTGGGGTCCCCTCCGAGGCTGGCCTCT
CGAGCTCCTGTGTGAGAAATCCATTGGCACGGCCAACAGACCGATGGGTGCTGGCGAGGCCCTGCGGAGAGTGCT
GGAGTGCCTGGCGTCGGGCATCGTGATGCCAGATGGTTCTGGCATTTATGACCCTTGTGAAAAAGAAGCCACTGA
TGCTATTGGGCATCTAGACAGACAGCAACGGGAAGATATCACACAGAGTGCGCAGCACGCACTGCGGCTCGCTGC
CTTCGGCCAGCTCCATAAAGTCCTAGGCATGGACCCTCTGCCTTCCAAGATGCCCAAGAAACCAAAGAATGAAAA
CCCAGTGGACTACACCGTTCAGATCCCACCAAGCACCACCTATGCCATTACGCCCATGAAACGCCCAATGGAGGA
GGACGGGGAGGAGAAGTCGCCCAGCAAAAAGAAGAAGAAGATTCAGAAGAAAGAGGAGAAGGCAGAGCCCCCCCA
GGCTATGAATGCCCTGATGCGGTTGAACCAGCTGAAGCCAGGGCTGCAGTACAAGCTGGTGTCCCAGACTGGGCC
CGTCCATGCCCCCATCTTTACCATGTCTGTGGAGGTTGATGGCAATTCATTCGAGGCCTCTGGGCCCTCCAAAAA
GACGGCCAAGCTGCACGTGGCCGTTAAGGTGTTACAGGACATGGGCTTGCCGACGGGTGCTGAAGGCAGGGACTC
GAGCAAGGGGGAGGACTCGGCTGAGGAGACCGAGGCGAAGCCAGCAGTGGTGGCCCCTGCCCCAGTGGTAGAAGC
TGTCTCCACCCCTAGTGCGGCCTTTCCCTCAGATGCCACTGCCGAGCAGGGGCCGATCCTGACAAAGCACGGCAA
GAACCCAGTCATGGAGCTGAACGAGAAGAGGCGTGGGCTCAAGTACGAGCTCATCTCCGAGACCGGGGGCAGCCA
CGACAAGCGCTTCGTCATGGAGGTCGAAGTGGATGGACAGAAGTTCCAAGGTGCTGGTTCCAACAAAAAGGTGGC
GAAGGCCTACGCTGCTCTTGCTGCCCTAGAAAAGCTTTTCCCTGACACCCCTCTCGCCCTTGATGCCAACAAAAA
GAAGAGAGCCCCAGTACCCGTCAGAGGGGGACCGAAATTTGCTGCTAAGCCACATAACCCTGGCTTCGGCATGGG
AGGCCCCATGCACAACGAAGTGCCCCCACCCCCCAACCTTCGAGGGCGGGGAAGAGGCGGGAGCATCCGGGGACG
AGGGCGCGGGCGAGGATTTGGTGGCGCCAACCATGGAGGCTACATGAATGCCGGTGCTGGGTATGGAAGCTATGG
GTACGGAGGCAACTCGGCGACAGCAGGCTACAGTCAGTTCTACAGCAACGGAGGGCATTCTGGGAATGCCAGTGG
CGGTGGCGGCGGGGGCGGTGGTGGCTCCTCCGGCTATGGCTCCTACTACCAAGGTGACAACTACAACTCACCGGT
GCCCCCAAAACACGCTGGGAAGAAGCAGCCGCACGGGGGCCAGCAGAAGCCCTCCTACGGCTCGGGCTACCAGTC
CCACCAGGGCCAGCAGCAGTCCTACAACCAGAGCCCCTACAGCAACTATGGCCCTCCACAGGGCAAGCAGAAAGG
CTATAACCATGGACAAGGCAGCTACTCCTACTCGAACTCCTACAACTCTCCCGGGGGCGGGGGCGGATCCGACTA
CAACTACGAGAGCAAATTCAACTACAGTGGTAGTGGAGGCCGAAGCGGCGGGAACAGCTACGGCTCAGGCGGGGC
ATCCTACAACCCAGGGTCACACGGGGGCTACGGCGGAGGTTCTGGGGGCGGCTCCTCATACCAAGGCAAACAAGG
AGGCTACTCACAGTCGAACTACAACTCCCCGGGGTCCGGCCAGAACTACAGTGGCCCTCCCAGCTCCTACCAGTC
CTCACAAGGCGGCTATGGCAGAAACGCAGACCACAGCATGAACTACCAGTACAGATAAGCCCCCGCGGGGCGGAG
ATTTCTACCTTCTGCACTTACTCCCCATCAGAAGATCGAGTTTTATGCATCACAGTTAACATGTCAGCTGGCCCT
CCAGGCCCCCGCCCCCATCCCGTCCACGTTGCTGTGTCGTGAGGTGCAGCGGGTCACCCTGTGGCCCGTCCTGTG
ACCCATATTTAGCCGTGTTTGGGACTCCGTGTCTTCAATGGTTTGTTAGTTGCCATTACAACTTTGTCTGGGTAG
AGTTTTTGAGTTTTTGCAGTTCAGTATCCCTCTGTCTATTCACACTTCGTGTTAGTGGTAACTCAGTTTGTCTTT
AAATAGTTACAGAAGGGATACGTCATTTGTTAATGCTTTTGTGAAGTGAGTTAAACGAGCTTTCTGTATTTTAAT
GCTTTAGTGTTTCAGTTTTATAAGTGAAGATTTTATTTTAAAAACCAGTGGGAAAGAGTGGGGGGTTTCTTTTTA
TGTCTGGGTCATTCAGGCAGTACATCTGAATTAAGCTGAATGTAGACAAATAAAGAAAAACAAAACT

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FIGURE 345

GTTAGAGCAGAGGAGGTCCCAGATACCAAGTGGCGCCTCCCAGGAAAGGCTGGGAGAAGAGGTGGCCTGGAGTAC
CCCGAGATCCCAGCAGCGCACACAGTGGAGGGATGAGGATGGATGGGTCCTAACCCCTGATTTTGATGGGATGTG
TTCATGTCCTATCTCCTCTCCTGGACACATTAAGGGGTTGGGACAAGAAGAGACTCCTGTGAGATCAGCAGACCT
CGTGTTTAAGGAGAGAATGCCTGCCTGCAACACTCATGGAGAGGGACACTTCCTGGCCCCACCTGCTAAATACCT
CCAAACTCTGGGCAGGCGCCTGCATTCTCAACACAGGACTTCCCTTAACAGTTTCCGGATCAGTGACCACCACCA
CGTTCAGGTTTCTGAATGCAGACCCACCACGAGGGATGGATTCCACCCGCCCGCCCTGCTGCAGATACATGCGGC
ACAGCAGGCACGTGCCTGGAGAGAACAGCTCCTGAGCACAGCACCCTTGGAGCCCTCACCCCGCTCACGATCCTC
ACCAGTGCTGATGATGCCGTCATGCTGCTGGCCTGAGACAGTATCCCAGCTACAACAGGACGACACCGGGTTCAG
GAATATGTGGCTATCACCTTGAGCACTGACAGTGGCCTTCCAGGCTAGTTGCCTTCCAAACGCAGGTAGCCGACC
TGCAGGAGGGCCTACAAACGGGCCCAGCAAGAGCTGGGCAACAGCTGGCTTGTGAAATGAGACACCTTGACCAAT
ATGCTTTGGGTGGACGGTCTCCTACATGTTCAGTGGAGGCCACCAGGAGCATCCATGAGCGGGGAAGGGGTCCAC
ACCCTTACATGGCAAGTTGATACGATGGGGTGCTTGGTGGATGGGCCATGGAGGTCCGTGAGCTGGAACTGGGCA
CACGCCATCCCAGAGGGCTCAGGATGCCCCAGGAAGGAAAGAAGGGCAACAGACTACACGATTGGACGTGTGTGG
TTGACTGGGATGAAGTTGGAGGGAGGGGCAGGGCCTTGCAGGGGATTGGTACTGATCCCAGGGAGGAAGTGTTGG
GGCTTCATGAACTAGGATGAAAGGAGGCCCCTGAGCCATGACAAGGGGCACATCCAGGATTTCCGCCACCCTGAA
TTTAGTAGAGCTAGTAGGCCCTGGTCGTCACTCTGGGCAGGGATGCCGTCAGCCTTGAGGGTCGCCACCCACCTG
TGTGTTGCCCTCTGTCCTGGCAGGGAAACATACACCCCTTGTCTCACCACCAACCTTGCTTGTGTAGTCAGCAGG
GCTGGCCCTGCCCCAAGGACTCACTGCATGTACCCGGACCCCTAGGCCTGGCCTTTGCAGCATAGTTGGGAGCTT
CTGGATTCCATCTGCACCTGTGAGCCCCATGCTGGCTGTGCACTGCGCGGGCCTGAGACTGCTGGATACAATGTT
GGGCAACAACTCAGCCAGCCTGATGGCAGCCTCAGAGGCTTACTCTAACCCATCCCAGAATAAATGGAGACTTCA
TGTGTT

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FIGURE 346

GTCAAGATGGCGGGAGCAGCTACCCAGGCTTCCCTGGAGTCGGCCCCACGGATCATGCGGCTGGTGGCCGAATGC
AGCCGCTCCAGGGCCCGGGCAGGCGAGCTGTGGCTGCCGCATGGGACAGTGGCCACTCCTGTGTTCATGCCAGTG
GGCACGCAGGCCACCATGAAGGGCATCACGACCGAACAGCTGGACGCTCTGGGTTGCCGCATCTGCCTGGGCAAT
ACCTACCATCTGGGTCTAAGGCCGGGACCCGAGCTGATCCAGAAAGCCAACGGTCTCCACGGCTTCATGAATTGG
CCTCATAATCTGCTAACGGACAGCGGCGGTTTCCAGATGGTGTCGCTGGTGTCTCTGTCCGAGGTGACGGAGGAG
GGCGTCCGCTTCCGCTCCCCCTACGACGGCAATGAGACCCTGCTGAGCCCGGAGAAATCCGTGCAGATCCAGAAT
GCGCTGGGCTCGGACATCATCATGCAGCTGGACGACGTGGTTAGCAGTACTGTGACTGGGCCACGTGTGGAGGAG
GCCATGTACAGGTCAATCCGCTGGCTGGACCGGTGCATTGCAGCCCATCAGCGGCCGGACAAGCAGAACCTCTTC
GCCATTATCCAGGGTGGGCTGGACGCAGATCTCCGGGCCACCTGCCTTGAAGAGATGACCAAGCGAGACGTGCCT
GGCTTCGCCATCGGGGGCCTGAGCGGGGGTGAGAGCAAGTCGCAGTTCTGGCGGATGGTGGCGCTGAGCACCTCT
CGGCTGCCGAAGGACAAGCCCCGATATCTGATGGGGGTTGGCTATGCCACTGATCTGGTAGTCTGCGTGGCTCTT
GGATGTGACATGTTCGACTGCGTCTTCCCCACACGGACAGCGCGCTTTGGCTCTGCCCTGGTGCCCACTGGGAAC
CTGCAGTTGAGGAAGAAGGTGTTTGAGAAGGACTTCGGCCCCATAGACCCGGAGTGCACCTGCCCCACGTGCCAA
AAGCACAGCCGCGCCTTCCTGCACGCACTGCTGCACAGTGACAACACGGCCGCGCTGCACCACCTCACGGTCCAC
AACATCGCCTACCAGCTGCAGCTCATGAGCGCCGTCCGCACCAGCATCGTGGAGAAGCGCTTCCCGGACTTCGTG
CGGGACTTCATGGGCGCCATGTACGGGGATCCCACCCTCTGTCCCACCTGGGCCACTGACGCTCTGGCCTCTGTG
GGAATCACACTGGGCTGACCTGGCATTGGGAGAGGGAGGGAGGAAGGAAGGGAGGGAGGGGCTGGAAGATACTGA
AGGATTCCTTTTTGAAAGGTTTTTTTTATTGTAACTT

FIGURE 347A

GACCGTGAGGCCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGCGGGGAGCAACGGCTACAGACGCCGC
GGGGCCAGGTCGTTGAGGGTCGGCGGCGGGCGAGGAGCGCAGGGCGCTCGGGCCGGGGGCCGCCGGCGCCATGGG
CAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAAACTGCAGGACGCCTTCAGCTCCATCGGCCAGAGCTG
CCACCTGGACCTGCCGCAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGTGCTGGAGAACTTCGT
GGGCCGGGACTTCCTTCCCCGCGGTTCAGGAATCGTCACCCGGCGGCCTCTCATTCTGCAGCTCATCTTCTCAAA
AACAGAACATGCCGAGTTTTTGCACTGCAAGTCCAAAAAGTTTACAGACTTTGATGAAGTCCGGCAGGAGATTGA
AGCAGAGACCGACAGGGTCACGGGGACCAACAAAGGCATCTCCCCAGTGCCCATCAACCTTCGAGTCTACTCGCC
ACACGTGTTGAACTTGACCCTCATCGACCTCCCGGGTATCACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACAT
CGAGTACCAGATCAAGGACATGATCCTGCAGTTCATCAGCCGGGAGAGCAGCCTCATTCTGGCTGTCACGCCCGC
CAACATGGACCTGGCCAACTCCGACGCCCTCAAGCTGGCCAAGGAAGTCGATCCCCAAGGCCTACGGACCATCGG
TGTCATCACCAAGCTTGACCTGATGGACGAGGGCACCGACGCCAGGGACGTCTTGGAGAACAAGTTGCTCCCGTT
GAGAAGAGGCTACATTGGCGTGGTGAACCGCAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACT
GGCAGCTGAGAGGAAGTTCTTCCTCTCCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCT
GCAGAAGACGCTGAATCAGCAACTGACCAACCACATCCGGGAGTCGCTGCCGGCCCTACGTAGCAAACTACAGAG
CCAGCTGCTGTCCCTGGAGAAGGAGGTGGAGGAGTACAAGAACTTTCGGCCCGACGACCCCACCCGCAAAACCAA
AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAGAAGAGGATCGAGGGCTCAGGAGATCAGGTGGA
CACTCTGGAGCTCTCCGGGGGCGCCCGAATCAATCGCATCTTCCACGAGCGGTTCCCATTTGAGCTGGTGAAGAT
GGAGTTTGACGAGAAGGACTTACGACGGGAGATCAGCTATGCCATTAAGAACATCCATGGAGTCAGGACCGGGCT
TTTCACCCCGGACTTGGCATTCGAGGCCATTGTGAAAAAGCAGGTCGTCAAGCTGAAAGAGCCCTGTCTGAAATG
TGTCGACCTGGTTATCCAGGAGCTAATCAATACAGTTAGGCAGTGTACCAGTAAGCTCAGTTCCTACCCCCGGTT
GCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAACGAAGGACCAGATTCTTCT
GCTGATCGACATTGAGCAGTCCTACATCAACACGAACCATGAGGACTTCATCGGGTTTGCCAATGCCCAGCAGAG
GAGCACGCAGCTGAACAAGAAGAGAGCCATCCCCAATCAGGGGGAGATCCTGGTGATCCGCAGGGGCTGGCTGAC
CATCAACAACATCAGCCTGATGAAAGGCGGCTCCAAGGAGTACTGGTTTGTGCTGACTGCCGAGTCACTGTCCTG
GTACAAGGATGAGGAGGAGAAAGAGAAGAAGTACATGCTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAA
GGGCTTCATGTCCAACAAGCACGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGTCTACAAGGACCTGCGGCA
GATCGAGCTGGCCTGTGACTCCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTCCTCCGAGCTGGCGTCTACCC
CGAGAAGGACCAGGCAGAAAACGAGGATGGGGCCCAGGAGAACACCTTCTCCATGGACCCCCAACTGGAGCGGCA
GGTGGAGACCATTCGCAACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCGCGACCTCATGCCAAA
GACCATCATGCACCTCATGATCAACAATACGAAGGCCTTCATCCACCACGAGCTGCTGGCCTACCTATACTCCTC
GGCAGACCAGAGCAGCCTCATGGAGGAGTCGGCTGACCAGGCACAGCGGCGGGACGACATGCTGCGCATGTACCA
TGCCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCCGCCTGT
CGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCGGTGTCCAGCATACACCC
CCCTGGCCGGCCCCCAGCAGTGAGGGGCCCCACTCCAGGGCCCCCCCTGATTCCTGTTCCCGTGGGGGCAGCAGC
CTCCTTCTCGGCGCCCCCAATCCCATCCCGGCCTGGACCCCAGAGCGTGTTTGCCAACAGTGACCTCTTCCCAGC
CCCGCCTCAGATCCCATCTCGGCCAGTTCGGATCCCCCCAGGGATTCCCCCAGGAGTGCCCAGCAGAAGACCCCC
TGCTGCGCCCAGCCGGCCCACCATTATCCGCCCAGCCGAGCCATCCCTGCTCGACTAGGCCTCGAGGGGGGCGTG
CTCTCGGGGGGGCCTCACGCACCCGCGGCGCAGGAGCTTCAGTGGTCTGGGGCCCTCCGCCGCCCCTATGCTGGG
ACCAGGCTCCCAGTGGGCAGCCCTGGCCTCTTCCTTAACGCTGGCCCCGGTCCAGGGCCGGCCCCTGTGCCTGGC
TGGACACCGCACTGCGCAAAGGGGCCCTGGAGCTCCAGGCAGGGGGCGCTGGGGTGTTGCACTTTGGGGGATGGA
GTCTCAGGGTGGCAGAGGGGGGACCAGAACCCTTGACACCATCCTGAATGAGGGGTCCAGCCTGGGGGGGACTCT
ACCAAGGTCTTCTTGGGCTGGGAAAGCCCATGTAGGGCAGGCCTTCTATAAGTGCGGGCACCAAGGGCGCCTACA
TCCCCAGGCCTTGCTGGGGTGCAGGGGTATATCAACTTCCCATTAGCAGGAGCTCCCCAGCGGCAAGCCTGGCCC
AGTGGGCTCGGTAGTGCCCAGCTGGCAGGCCTGAGGTGTACATAGTCCTTCCCGGCCATATTAACCACACAGCCT
GAGCCTGGCCCAGCCTCGGCTGCCAGAGGTGCCTTTGCTAGGCCCGGAGCCGTTGGCCCGGGCCGGCCTTGCCCT
ATTCCTCTCCTCCTCCTCCTGGGTCCCCCAGGGTGGCTGGGCTTGGGCTATGTGGGTGGTGGTGGCGGGGGG
TCTTGGGGGCCTCTCAGCTCCCGCCCATGCCTCCCTGATGGGTGGGCCCAGGGCGGCCTCTCTCTGAGGAGACCT
CACCCACTCCTCGCTCAGTTTGACCACTGTAAGTGCCTGCACTCTGTATTCTATTAATAAACTAAAATAAAGGGA

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FIGURE 347B

AGACGCTGCTGGTG

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FIGURE 348

CTGCCAATGAGCTCCGCCGAGTAGCACCGGGGCAGGGCTAGCGCTTAAAGGAGCCGCGACCCCTTTGCAGACCAG
AGGGTGACCCGGATGATGGCGGCCGGCGCGGCCCTAGCCCTGGCCTTGTGGCTACTAATGCCACCAGTGGAGGTG
GGAGGGGCGGGGCCCCCGCCAATCCAGGACGGTGAGTTCACGTTCCTGTTGCCGGCGGGGAGGAAGCAGTGTTTC
TACCAGTCCGCGCCGGCCAACGCAAGCCTCGAGACCGAATACCAGGTGATCGGAGGTGCTGGACTGGACGTGGAC
TTCACGCTGGAGAGCCCTCAGGGCGTGCTGTTGGTCAGCGAGTCCCGCAAGGCTGATGGGGTACACACGGTGGAG
CCAACGGAGGCCGGGGACTACAAGCTGTGCTTTGACAACTCCTTCAGCACCATCTCCGAGAAGCTGGTGTTCTTT
GAACTGATCTTTGACAGCCTCCAGGATGACGAGGAGGTCGAAGGATGGGCAGAGGCTGTGGAGCCCGAGGAGATG
CTGGATGTTAAAATGGAGGACATCAAGGAGTCCATTGAGACCATGCGGACCCGGCTGGAGCGCAGCATCCAGATG
CTCACGCTACTGCGGGCCTTCGAGGCACGTGACCGCAACCTGCAAGAGGGCAACTTGGAGCGGGTCAACTTCTGG
TCAGCTGTCAACGTGGCGGTGCTGCTGCTGGTGGCTGTGCTGCAGGTCTGCACGCTCAAGCGCTTCTTCCAGGAC
AAGCGCCCGGTGCCCACGTAGCCCCTGCCATGGAAGGAAGAACGGGACAAAGGAGGGGCAGCAGGGTGTGTGCAT
ATGAGACTTGGGGGTCCCTCCCCAATTTTAGTTTCCTGCCAAAACGGGAGTGTGCAGTCAGGGCCTGCGGTCTGG
CCCCATGAGTCTCCTTCCGTCCTCAGCGGGCAGGGAACACCTCTGGCTTGTAGAAGGGACGGCTCAGTGGCTGCA
CCGACGGTCCTGGAAATCTCACATGGTGGGCACTGCAGCGTTGGAACGTGAGCCTCGGATTTCCTGGCCCCTCTA
CTGTAAATGTGCCTTAGCCTAAGCCTCCCATCCTGTGTTAGCGTTGCCTGGTGCGGGGCAGGGCCTAACAAGGAA
ACCTGGGCCCTCCAAGCCAGGTTGAGGTCTGGTAACAGAATGCCAGGAAGGGGGCCTGGAAGACCACCTGCCCCG
GCCCCTCTCCTGCAGGGGCCCCACACAGGCATGAGGGATGGCCCGGCCAAAGTCTAGGCAGAAGCCTCCTATAAC
AAAGGGTGGTGTGGCCTGGGCATTGGAG

FIGURE 349

CGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCAGCGGCGGCGGCCTGGGCCCGGGCGC
AGCGGCGGCGGCGGCGGGGCCTGGAGCCGGATCTAAGATGGCAGCGGCGGCGGCGGCGGTGGGGCCGGGCGCGGG
CGGCGCGGGGTCGGCGGTCCCGGGCGGCGCGGGGCCCTGCGCTACCGTGTCGGTGTTCCCCGGCGCCCGCCTCCT
CACCATCGGCGACGCGAACGGCGAGATCCAGCGGCACGCGGAGCAGCAGGCGCTGCGCCTCGAGGTGCGCGCCGG
CCCGGACTCGGCGGGCATCGCCCTCTACAGCCATGAAGATGTGTGTGTCTTTAAGTGCTCAGTGTCCCGAGAGAC
AGAGTGCAGCCGTGTGGGCAAGCAGTCCTTCATCATCACCCTGGGCTGCAACAGCGTCCTCATCCAGTTCGCCAC
ACCCAACGATTTCTGTTCCTTCTACAACATCCTGAAAACCTGCCGGGGCCACACCCTGGAGCGGTCTGTGTTCAG
CGAGCGGACGGAGGAGTCTTCTGCCGTGCAGTACTTCCAGTTTTATGGCTACCTGTCCCAGCAGCAGAACATGAT
GCAGGACTACGTGCGGACAGGCACCTACCAGCGCGCCATCCTGCAAAACCACACCGACTTCAAGGACAAGATCGT
TCTTGATGTTGGCTGTGGCTCTGGGATCCTGTCGTTTTTTGCCGCCCAAGCTGGAGCACGGAAAATCTACGCGGT
GGAGGCCAGCACCATGGCCCAGCACGCTGAGGTCTTGGTGAAGAGTAACAACCTGACGGACCGCATCGTGGTCAT
CCCGGGCAAGGTGGAGGAGGTGTCACTCCCCGAGCAGGTGGACATCATCATCTCGGAGCCCATGGGCTACATGCT
CTTCAACGAGCGCATGCTGGAGAGCTACCTCCACGCCAAGAAGTACCTGAAGCCCAGCGGAAACATGTTTCCTAC
CATTGGTGACGTCCACCTTGCACCCTTCACGGATGAACAGCTCTACATGGAGCAGTTCACCAAGGCCAACTTCTG
GTACCAGCCATCTTTCCATGGAGTGGACCTGTCGGCCCTCCGAGGTGCCGCGGTGGATGAGTATTTCCGGCAGCC
TGTGGTGGACACATTTGACATCCGGATCCTGATGGCCAAGTCTGTCAAGTACACGGTGAACTTCTTAGAAGCCAA
AGAAGGAGATTTGCACAGGATAGAAATCCCATTCAAATTCCACATGCTGCATTCAGGGCTGGTCCACGGCCTGGC
TTTCTGGTTTGACGTTGCTTTCATCGGCTCCATAATGACCGTGTGGCTGTCCACAGCCCCGACAGAGCCCCTGAC
CCACTGGTACCAGGTGCGGTGCCTGTTCCAGTCACCACTGTTCGCCAAGGCAGGGGACACGCTCTCAGGGACATG
TCTGCTTATTGCCAACAAAAGACAGAGCTACGACATCAGTATTGTGGCCCAGGTGGACCAGACCGGCTCCAAGTC
CAGTAACCTCCTGGATCTGAAAAACCCCTTCTTTAGATACACGGGCACAACGCCCTCACCCCCACCCGGCTCCCA
CTACACATCTCCCTCGGAAAACATGTGGAACACGGGCAGCACCTACAACCTCAGCAGCGGGATGGCCGTGGCAGG
GATGCCGACCGCCTATGACTTGAGCAGTGTTATTGCCAGTGGCTCCAGCGTGGGCCACAACAACCTGATTCCTTT
AGCCAACACGGGGATTGTCAATCACACCCACTCCCGGATGGGCTCCATAATGAGCACGGGGATTGTCCAAGGGTC
CTCCGGCGCCCAGGGCAGTGGTGGTGGCAGCACGAGTGCCCACTATGCAGTCAACAGCCAGTTCACCATGGGCGG
CCCCGCCATCTCCATGGCGTCGCCCATGTCCATCCCGACCAACACCATGCACTACGGGAGCTAGGGGCCCGCCCC
GCGGACTGACAGCACCAGGAAACCAAATGATGTCCCTGCCCGCCGCCCCCGCCGGGCGGCTTTCCCCCTTGTACT
GGAGAAGCTCGAACACCCGGTCACAGCTCTCTTTGCTATGGGAACTGGGACACTTTTTTACACGATGTTGCCGCC
GTCCCCACCCTAACCCCCACCTCCCGGCCCTGAGCGTGTGTCGCTGCCATATTTTACACAAAATCATGTTGTGGG
AGCCCTCGTCCCCCCTCCTGCCCGCTCTACCCTGACCTGGGCTTGTCATCTGCTGGAACAGGCGCCATGGGGCCT
GCCAGCCCTGCCTGCCAGGTCCCTTAGCACCTGTCCCCCTGCCTGTCTCCAGTGGGAAGGTAGCCTGGCCAGGCG
GGGCCTCCCCTTCGACGACCAGGCCTCGGTCACAACGGACGTGACATGCTGCTTTTTTTAATTTTATTTTTTTAT
GAAAAGAACCAGTGTCAATCCGCAGACCCTCTGTGAAGCCAGGCCGGCCGGGCCGAGCCAGCAGCCCCTCTCCCT
AGACTCAGAGGCGCCGCGGGGAGGGGTGGCCCCGCCGAGGCTTCAGGGGCCCCCTCCCCACCAAAGGGTTCACCT
CACACTTGAATGTACAACCCACCCCACTGTCGGGAAGGCCTCCGTCCTCGGCCCCTGCCTCTTGCTGCTGTCCTG
TCCCCGAGCCCCTGCAGGTCCCCCCCCGCCCCCCCACTCAAGAGTTAGAGCAGGTGGCTGCAGGCCTTGGGCCCG
GAGGGAAGGCCACTGCCGGCCACTTGGGGCAGACACAGACACCTCAAGGATCTGTCACGGAAGGCGTCCTTTTTC
CTTGTAGCTAACGTTAGGCCTGAGTAGCTCCCCTCCATCCTTGTAGACGCTCCAGTCCCTACTACTGTGACGGCA
TTTCCATCCCTCCCCTGCCCGGGAAGGGACCTTGCAGGGACCTCTCCCTCCAAAAAAAGAAAAAAAGAAAAAGAA
AGAAAAAATAAATGAGGAAACGTGTTGCA

FIGURE 350

GGATGTTGCTGTCAGGTCTGAGTCGGTTGGAGTCTGACGGGTAGGCGAGACGCGCAGGCGCAGAGAGCCCCAGCC
ACGCCGGCCCAGGTGGCCTCAGCGAGGGATGCGGAGACGCCCCTGAACGACCATGGCATCGGCCGACGAGCTGAC
CTTCCATGAATTCGAGGAGGCCACTAATCTTCTGGCTGACACCCCAGATGCAGCCACCACCAGCAGAAGCGATCA
GCTGACCCCACAAGGGCACGTGGCTGTGGCCGTGGGCTCAGGTGGCAGCTATGGAGCCGAGGATGAGGTGGAGGA
GGAGAGTGACAAGGCCGCGCTCCTGCAGGAGCAGCAGCAGCAGCAGCAGCCGGGATTCTGGACCTTCAGCTACTA
TCAGAGCTTCTTTGACGTGGACACCTCACAGGTCCTGGACCGGATCAAAGGCTCACTGCTGCCCCGGCCTGGCCA
CAACTTTGTGCGGCACCATCTGCGGAATCGGCCGGATCTGTATGGCCCCTTCTGGATCTGTGCCACGTTGGCCTT
TGTCCTGGCCGTCACTGGCAACCTGACGCTGGTGCTGGCCCAGAGGAGGGACCCCTCCATCCACTACAGCCCCCA
GTTCCACAAGGTGACCGTGGCAGGCATCAGCATCTACTGCTATGCGTGGCTGGTGCCCCTGGCCCTGTGGGGCTT
CCTGCGGTGGCGCAAGGGTGTCCAGGAGCGCATGGGGCCCTACACCTTCCTGGAGACTGTGTGCATCTACGGCTA
CTCCCTCTTTGTCTTCATCCCCATGGTGGTCCTGTGGCTCATCCCTGTGCCTTGGCTGCAGTGGCTCTTTGGGGC
GCTGGCCCTGGGCCTGTCAGCCGCCGGGCTGGTATTCACCCTCTGGCCCGTGGTCCGTGAGGACACCAGGCTGGT
GGCCACAGTGCTGCTGTCCGTGGTCGTGCTGCTCCACGCCCTCCTGGCCATGGGCTGTAAGTTGTACTTCTTCCA
GTCGCTGCCTCCGGAGAACGTGGCTCCTCCACCCCAAATCACATCTCTGCCCTCAAACATCGCGCTGTCCCCTAC
CTTGCCGCAGTCCCTGGCCCCCTCCTAGGAAGGCCCGGGTCCCACAGGCAACACCTAAGTGGACCAACCCCTCTG
CCTGTCCTGCCCCCCAGACGATGACTGAAGGCTCCTTTGACACCTTGAGATGATTCTGCTACTTTCCAGACTTTT
CTTACAAAGCAAACACTTTTATTTTCTATGCAAAGGTGATTCAGAGAATTTATATAAAGGCGGGCGAGGGGCAGC
CGAGCAGGGAGCTTTGGGACAGGGCTGGGGCCCCCATATCCCCCCCGGGCCACCTGCTTTCCCTCCTATGGCTCC
CCTGGAACAGGAGGGAGAGCCAAGGGGGCGGCCCAGCCTGGACAGCGCCCGCTCCTGCCTGGGTGCACACACGGC
GGGCCTGAGCTCCAGCATCTGAGTTTGGGGGTATGAGAAACAGGGGAGCAGAAGGAGAAGAAAACTGCCTGTGCT
GCAACACGTTTCCTCATTTATTTTTTCTTTCTTTTTCTTTTTTTCTTTTTTTTGGAGGGAGAGGTCCCTGCAAGGT
CCCTTCCCGGGCAGGGGAGGGATGGAAATGCCGTCACAGTAGTAGGGACTGGAGCGTCTACAAGGATGGAGGGGA
GCTACTCAGGCCTAACGTTAGCTACAAGGAAAAAGGACGCCTTCCGTGACAGATCCTTGAGGTGTCTGTGTCTGC
CCCAAGTGGCCGGCAGTGGCCTTCCCTCCGGGCCCAAGGCCTGCAGCCACCTGCTCTAACTCTTGAGTGGGGGGG
CGGGGGGGGACCTGCAGGGGCTCGGGGACAGGACAGCAGCAAGAGGCAGGGGCCGAGGACGGAGGCCTTCCCGAC
AGTGGGGTGGGTTGTACATTCAAGTGTGAGGTGAACCCTTTGGTGGGGAGGGGGCCCCTGAAGCCTCGGCGGGGC
CACCCCTCCCCGCGGCGCCTCTGAGTCTAGGGAGAGGGGCTGCTGGCTCGGCCCGGCCGGCCTGGCTTCACAGAG
GGTCTGCGGATTGACACTGGTTCTTTTCATAAAAAAATAAAATTAAAAAAAGCA

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FIGURE 351

GAAGAGACTCCCGGGCTCTTAACGTCGGGTATCAGGAGTTTCTTCCCGGAGCAAGGACCCCCAAGACGGAAGAGG
ATGGCCGCGGCGGCTCTGAGGAGATTTTGGTCCCGGCGCCGCGCAGAGGCGGGCGACGCGGTAGTGGCGAAGCCG
GGAGTGTGGGCGCGGCTGGGGTCCTGGGCCCGCGCGCTGCTCCGGGACTACGCCGAGGCCTGCAGGGACGCTTCG
GCGGAGGCTAGGGCCCGGCCGGGGCGCGCCGCTGTGTATGTGGGTCTGCTGGGCGGCGCGGCGGCCTGCTTCACG
CTGGCGCCCAGCGAGGGTGCCTTCGAGGAGGCGCTGCTGGAGGCGTCGGGGACCCTCCTGCTGCTGGCGCCGGCC
ACCCGCAACCGCGAGTCCGAAGCCTTCGTGCAGAGGCTGCTCTGGCTGCGGGGCCGTGGCCGCCTGCGCTACGTC
AACCTGGGGCTCTGCTCGCTGGTGTACGAGGCGCCCTTCGACGCCCAGGCCAGCCTCTACCAGGCGCGTTGCCGC
TACCTGCAGCCCCGCTGGACCGACTTCCCCGGCCGGGTCCTGGACGTGGGCTTCGTGGGTCGCTGGTGGGTGCTG
GGGGCCTGGATGCGCGACTGCGACATCAACGACGACGAATTCCTGCACCTGCCGGCGCATTTGCGGGTGGTCGGG
CCCCAGCAGCTGCATTCCGAGACCAACGAGCGGCTCTTCGATGAGAAGTACAAGCCTGTCGTGCTCACCGACGAT
CAGGTGGACCAGGCGCTGTGGGAGGAGCAGGTCTTGCAGAAGGAGAAGAAGGACAGGCTCGCCCTGAGCCAGGCC
CACTCGCTGGTGCAGGCGGAGGCCCCGAGATGAAACCCTGAGGCCCCCGAGTCCTGGCAAACTGCTTGCCTGGGG
TGGTGCAGTTCTGAGTGTGCCTCACCTGCAGAACAGCTGAGACAGATGATGTGCAAAGTGTTTTCTCACTGGATT
TGCACAAGTTTGGGGAGCCTTTCTGCCCCCCGTCTTTGTTCTTTATTAGCTGAAGCTAATTCAGAGCCACCTGGG
TCCGGGAGTTGGGGACAGCAGAACGACTTGACACATGTTCATCACTGGCAGAGCTGGTCATGAGCCTTTTATATA
AGCCTTTTTCATCGGGCCTCAGAGGCCCTCCTTAAGGAGGTACCACATTGGTCAGCTGACTTGCAAACTCTTCTA
AGGCCACTTAGATTTTCTTTTTCAAGTTTGGGTTGTGGCCTGGCATGGTGATGTCTGTAATCCCAGCAGTTTGCA
AACTGAGGCAAGAGAATCGCTTGAGGCCAGGAGTTTGAGGCCAGCTAGAGTGACATAGCAAGACTCCGATGCTAC
AAAAAAGAATAATAATAGTAATTAACTAAATAAAATTTGAGCTG

FIGURE 352A

GCCGGCGAGCGCGCGCGCAGCGGGGGCGCGGGTGGCGCGCGTGTGTGTGAAGGGGGGGCGGTGGCCGAGGCGGGC
GGGCGCGCGCGCGAGGCTTCCCCTCGTTTGGCGGCGGCGGCGGCTTCTTTGTTTCGTGAAGAGAAGCGAGACGCC
CATTCTGCCCCCGGCCCCGCGCGGAGGGGCGGGGGAGGCGCCGGGAAGTCGACGGCGCCGGCGGCTCCTGCAGGA
GGCCACTGTCTGCAGCTCCCGTGAAGATGTCCACTCCAGACCCACCCCTGGGCGGAACTCCTCGGCCAGGTCCTT
CCCCGGGCCCTGGCCCTTCCCCTGGAGCCATGCTGGGCCCTAGCCCGGGTCCCTCGCCGGGCTCCGCCCACAGCA
TGATGGGGCCCAGCCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACCCAGGGGCCTGGAGGGTACCCTCAGG
ACAACATGCACCAGATGCACAAGCCCATGGAGTCCATGCATGAGAAGGGCATGTCGGACGACCCGCGCTACAACC
AGATGAAAGGAATGGGGATGCGGTCAGGGGGCCATGCTGGGATGGGGCCCCCGCCCAGCCCCATGGACCAGCACT
CCCAAGGTTACCCCTCGCCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCAGTTCCAGCCAGTGGCCCGTCTTCGG
GGCCCCAGATGTCTTCCGGGCCAGGAGGTGCCCCGCTGGATGGTGCTGACCCCCAGGCCTTGGGGCAGCAGAACC
GGGGCCCAACCCCATTTAACCAGAACCAGCTGCACCAGCTCAGAGCTCAGATCATGGCCTACAAGATGCTGGCCA
GGGGGCAGCCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGGCCGATGCCCGGGATGCAGCAGCAGA
TGCCAACGCTACCTCCACCCTCGGTGTCCGCAACAGGACCCGGCCCTGGCCCTGGCCCTGGCCCCGGCCCGGGTC
CCGGCCCGGCACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCCAACATGCCTCCCCCAGGACCCTCGG
GCGTGCCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCCTGGCCTGAAGGACCCATGGCGAATG
CTGCTGCCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACGGGCCGCCCTTCCCCCGCGCCCCCTG
CCGTCCCACCCGCCGCCTCGCCCGTGATGCCACCGCAGACCCAGTCCCCCGGGCAGCCGGCCCAGCCCGCGCCCA
TGGTGCCACTGCACCAGAAGCAGAGCCGCATCACCCCCATCCAGAAGCCGCGGGGCCTCGACCCTGTGGAGATCC
TGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTCAGGAACTTGAAAACCTTCCCGGGTCCC
TGGCCGGGGATTTGCGAACCAAAGCGACCATTGAGCTCAAGGCCCTCAGGCTGCTGAACTTCCAGAGGCAGCTGC
GCCAGGAGGTGGTGGTGTGCATGCGGAGGGACACAGCGCTGGAGACAGCCCTCAATGCTAAGGCCTACAAGCGCA
GCAAGCGCCAGTCCCTGCGCGAGGCCCGCATCACTGAGAAGCTGGAGAAGCAGCAGAAGATCGAGCAGGAGCGCA
AGCGCCGGCAGAAGCACCAGGAATACCTCAATAGCATTCTCCAGCATGCCAAGGATTTCAAGGAATATCACAGAT
CCGTCACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCATGCCAACACGGAGCGGGAGCAGAAGA
AAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAAGATGAGGAGGGGTACCGCAAGCTCA
TCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGCAGCAGACAGACGAGTACGTGGCTAACCTCACGGAGC
TGGTGCGGCAGCACAAGGCTGCCCAGGTCGCCAAGGAGAAAAAGAAGAAAAAGAAAAAGAAGAAGGCAGAAAATG
CAGAAGGACAGACGCCTGCCATTGGGCCGGATGGCGAGCCTCTGGACGAGACCAGCCAGATGAGCGACCTCCCGG
TGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCCCCCAAAGCCGGGCAGCTGGAGGCCT
GGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAAGAAAGTGGCTCAGAAGAAGAGGAAG
AGGAGGAGGAGGAAGAGCAGCCGCAGGCAGCACAGCCTCCCACCCTGCCCGTGGAGGAGAAGAAGAAGATTCCAG
ATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAGAATGCCAAGCAAGATGTCGATGATG
AATATGGCGTGTCCCAGGCCCTTGCACGTGGCCTGCAGTCCTACTATGCCGTGGCCCATGCTGTCACTGAGAGAG
TGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCCTCAAACAGTACCAGATCAAAGGTTTGGAGTGGCTGGTGT
CCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTGGGGAAGACCATCCAGACCATCGCGC
TCATCACGTACCTCATGGAGCACAAACGCATCAATGGGCCCTTCCTCATCATCGTGCCTCTCTCAACGCTGTCCA
ACTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCTTACAAGGGATCCCCAGCAGCAAGAC
GGGCCTTTGTCCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACGACGTACGAGTACATCATCAAAGACA
AGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGTCACCGCATGAAGAACCACCACTGCA
AGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCCGCCTGCTGCTGACGGGCACACCGCTGCAGAACA
AGCTTCCCGAGCTCTGGGCGCTGCTCAACTTCCTGCTGCCCACCATCTTCAAGAGCTGCAGCACCTTCGAGCAGT
GGTTTAACGCACCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAGGAGGAAACCATTCTCATCATCCGGC
GTCTCCACAAAGTGCTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAAGTCGAGGCCCAGTTGCCCGAAAAGG
TGGAGTACGTCATCAAGTGCGACATGTCTGCGCTGCAGCGAGTGCTCTACCGCCACATGCAGGCCAAGGGCGTGC
TGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAGACCCTGATGAACACCATCATGCAGC
TGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCCTTTTCCGAGCACTTGGGGTTCACTG
GCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAGCTTCTTGATAGAATTCTTCCCAAAC
TCCGAGCAACCAACCACAAAGTGCTGCTGTTCTGCCAAATGACCTCCCTCATGACCATCATGGAAGATTACTTTG

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FIGURE 352B

CGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAGGACCGGGGCATGCTGCTGAAAACCT
TCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCTGGGGGGCTCGGCCTGAACCTCCAGT
CGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCCTCACCAGGACCTGCAAGCGCAGGACCGAGCCCACC
GCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAACAGCGTGGAGGAGAAGATCCTAGCTG
CAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATGTTCGACCAGAAGTCCTCCAGCCATG
AGCGGCGCGCCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAGAGCAGACACTGCAGCACGGGCAGCG
GCAGTGCCAGCTTCGCCCACACTGCCCCTCCGCCAGCGGGCGTCAACCCCGACTTGGAGGAGCCACCTCTAAAGG
AGGAAGACGAGGTGCCCGACGACGAGACCGTCAACCAGATGATCGCCCGGCACGAGGAGGAGTTTGATCTGTTCA
TGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCCGCAACCCCAAGCGGAAGCCGCGCCTCATGGAGGAGGACG
AGCTCCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACCTGTGAGGAGGAGGAGGAGAAGATGT
TCGGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTGACGGAGAAGCAGTGGCTCAAGGCCA
TCGAGGAGGGCACGCTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAATCATCACGGAAGCGCAAGCGAGACA
GCGACGCCGGCTCCTCCACCCCGACCACCAGCACCCGCAGCCGCGACAAGGACGACGAGAGCAAGAAGCAGAAGA
AGCGCGGGCGGCCGCCTGCCGAGAAACTCTCCCCTAACCCACCCAACCTCACCAAGAAGATGAAGAAGATTGTGG
ATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAGCGAGGTCTTCATCCAGCTGCCCTCGCGAA
AGGAGCTGCCCGAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAGAAGATAAAGGAGCGCATTCGCAACC
ACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTCATGCTCCTGTGCCAGAACGCACAGACCTTCAACCTGG
AGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGCAGTCGGTCTTCACCAGCGTGCGGCAGAAAATCGAGAAGG
AGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAGGAAGGCTCCGAATCCGAATCTCGGT
CCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGGCTGAAGGGCGGCCGGCGGCGGCCGA
GCCGAGGGTCCCGAGCCAAGCCGGTCGTGAGTGACGATGACAGTGAGGAGGAACAAGAGGAGGACCGCTCAGGAA
GTGGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCCCCTCGTTCCAGAGCTGAGATGGCAT
AGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGGAGTAAAACTGTATAAACAAAAGAATCTTC
CATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTCCTGGCATCAGTAGCATCTGTAACAG
CATTAACTGTCTTAAAGAGAGAGAGAGAGAATTCCGAATTGGGGAACACACGATACCTGTTTTTCTTTTCCGTTG
CTGGCAGTACTGTTGCGCCGCAGTTTGGAGTCACTGTAGTTAAGTGTGGATGCATGTGCGTCACCGTCCACTCCT
CCTACTGTATTTTATTGGACAGGTCAGACTCGCCGGGGGCCCGGCGAGGGTATGTCAGTGTCACTGGATGTCAAA
CAGTAATAAATTAAACCAACAACAAAACGC

FIGURE 353A

GCCCCGAGTGCAATCGCGGGAAGCCAGGGTTTCCAGCTAGGACACAGCAGGTCGTGATCCGGGTCGGGACACTGC
CTGGCAGAGGCTGCGAGC**ATG**GGGCCCTGGGGCTGGAAATTGCGCTGGACCGTCGCCTTGCTCCTCGCCGCGGCG
GGGACTGCAGTGGGCGACAGATGCGAAAGAAACGAGTTCCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGG
GTCTGCGATGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTTGTCTGTCACCTGCAAA
TCCGGGGACTTCAGCTGTGGGGGCCGTGTCAACCGCTGCATTCCTCAGTTCTGGAGGTGCGATGGCCAAGTGGAC
TGCGACAACGGCTCAGACGAGCAAGGCTGTCCCCCCAAGACGTGCTCCCAGGACGAGTTTCGCTGCCACGATGGG
AAGTGCATCTCTCGGCAGTTCGTCTGTGACTCAGACCGGGACTGCTTGGACGGCTCAGACGAGGCCTCCTGCCCG
GTGCTCACCTGTGGTCCCGCCAGCTTCCAGTGCAACAGCTCCACCTGCATCCCCCAGCTGTGGGCCTGCGACAAC
GACCCCGACTGCGAAGATGGCTCGGATGAGTGGCCGCAGCGCTGTAGGGGTCTTTACGTGTTCCAAGGGGACAGT
AGCCCCTGCTCGGCCTTCGAGTTCCACTGCCTAAGTGGCGAGTGCATCCACTCCAGCTGGCGCTGTGATGGTGGC
CCCGACTGCAAGGACAAATCTGACGAGGAAAACTGCGCTGTGGCCACCTGTCGCCCTGACGAATTCCAGTGCTCT
GATGGAAACTGCATCCATGGCAGCCGGCAGTGTGACCGGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGC
TGCGTTAATGTGACACTCTGCGAGGGACCCAACAAGTTCAAGTGTCACAGCGGCGAATGCATCACCCTGGACAAA
GTCTGCAACATGGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGCGGGACCAACGAATGCTTG
GACAACAACGGCGGCTGTTCCCACGTCTGCAATGACCTTAAGATCGGCTACGAGTGCCTGTGCCCCGACGGCTTC
CAGCTGGTGGCCCAGCGAAGATGCGAAGATATCGATGAGTGTCAGGATCCCGACACCTGCAGCCAGCTCTGCGTG
AACCTGGAGGGTGGCTACAAGTGCCAGTGTGAGGAAGGCTTCCAGCTGGACCCCCACACGAAGGCCTGCAAGGCT
GTGGGCTCCATCGCCTACCTCTTCTTCACCAACCGGCACGAGGTCAGGAAGATGACGCTGGACCGGAGCGAGTAC
ACCAGCCTCATCCCCAACCTGAGGAACGTGGTCGCTCTGGACACGGAGGTGGCCAGCAATAGAATCTACTGGTCT
GACCTGTCCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCCACGGCGTCTCTTCCTATGACACCGTCATC
AGCAGAGACATCCAGGCCCCCGACGGGCTGGCTGTGGACTGGATCCACAGCAACATCTACTGGACCGACTCTGTC
CTGGGCACTGTCTCTGTTGCGGATACCAAGGGCGTGAAGAGGAAAACGTTATTCAGGGAGAACGGCTCCAAGCCA
AGGGCCATCGTGGTGGATCCTGTTCATGGCTTCATGTACTGGACTGACTGGGGAACTCCCGCCAAGATCAAGAAA
GGGGGCCTGAATGGTGTGGACATCTACTCGCTGGTGACTGAAAACATTCAGTGGCCCAATGGCATCACCCTAGAT
CTCCTCAGTGGCCGCCTCTACTGGGTTGACTCCAAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGGCAAC
CGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCCACCCCTTCTCCTTGGCCGTCTTTGAGGACAAAGTATTT
TGGACAGATATCATCAACGAAGCCATTTTCAGTGCCAACCGCCTCACAGGTTCCGATGTCAACTTGTTGGCTGAA
AACCTACTGTCCCCAGAGGATATGGTTCTCTTCCACAACCTCACCCAGCCAAGAGGAGTGAACTGGTGTGAGAGG
ACCACCCTGAGCAATGGCGGCTGCCAGTATCTGTGCCTCCCTGCCCCGCAGATCAACCCCCACTCGCCCAAGTTT
ACCTGCGCCTGCCCGGACGGCATGCTGCTGGCCAGGGACATGAGGAGCTGCCTCACAGAGGCTGAGGCTGCAGTG
GCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTCAGCTCCACAGCCGTAAGGACACAGCACACAACCACCCGA
CCTGTTCCCGACACCTCCCGGCTGCCTGGGGCCACCCCTGGGCTCACCACGGTGGAGATAGTGACAATGTCTCAC
CAAGCTCTGGGCGACGTTGCTGGCAGAGGAAATGAGAAGAAGCCCAGTAGCGTGAGGGCTCTGTCCATTGTCCTC
CCCATCGTGCTCCTCGTCTTCCTTTGCCTGGGGGTCTTCCTTCTATGGAAGAACTGGCGGCTTAAGAACATCAAC
AGCATCAACTTTGACAACCCCGTCTATCAGAAGACCACAGAGGATGAGGTCCACATTTGCCACAACCAGGACGGC
TACAGCTACCCCTCGAGACAGATGGTCAGTCTGGAGGATGACGTGGCG**TGA**ACATCTGCCTGGAGTCCCGTCCCT
GCCCAGAACCCTTCCTGAGACCTCGCCGGCCTTGTTTTATTCAAAGACAGAGAAGACCAAAGCATTGCCTGCCAG
AGCTTTGTTTTATATATTTATTCATCTGGGAGGCAGAACAGGCTTCGGACAGTGCCCATGCAATGGCTTGGGTTG
GGATTTTGGTTTCTTCCTTTCCTCGTGAAGGATAAGAGAAACAGGCCCGGGGGGGACCAGGATGACACCTCCATTT
CTCTCCAGGAAGTTTTGAGTTTCTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGGAGGGGATGT
CAGGCCCAGAGAAGCAAGTGGCTTTCAACACACAACAGCAGATGGCACCAACGGGACCCCCTGGCCCTGCCTCAT
CCACCAATCTCTAAGCCAAACCCCTAAACTCAGGAGTCAACGTGTTTACCTCTTCTATGCAAGCCTTGCTAGACA
GCCAGGTTAGCCTTTGCCCTGTCACCCCCGAATCATGACCCACCCAGTGTCTTTCGAGGTGGGTTTGTACCTTCC
TTAAGCCAGGAAAGGGATTCATGGCGTCGGAAATGATCTGGCTGAATCCGTGGTGGCACCGAGACCAAACTCATT
CACCAAATGATGCCACTTCCCAGAGGCAGAGCCTGAGTCACTGGTCACCCTTAATATTTATTAAGTGCCTGAGAC
ACCCGGTTACCTTGGCCGTGAGGACACGTGGCCTGCACCCAGGTGTGGCTGTCAGGACACCAGCCTGGTGCCCAT
CCTCCCGACCCCTACCCACTTCCATTCCCGTGGTCTCCTTGCACTTTCTCAGTTCAGAGTTGTACACTGTGTACA
TTTGGCATTTGTGTTATTATTTTGCACTGTTTTCTGTCGTGTGTGTTGGGATGGGATCCCAGGCCAGGGAAAGCC

FIGURE 353B

CGTGTCAATGAATGCCGGGGACAGAGAGGGGCAGGTTGACCGGGACTTCAAAGCCGTGATCGTGAATATCGAGAA
CTGCCATTGTCGTCTTTATGTCCGCCCACCTAGTGCTTCCACTTCTATGCAAATGCCTCCAAGCCATTCACTTCC
CCAATCTTGTCGTTGATGGGTATGTGTTTAAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGTGAAAC
CCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGC
TGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCAGTCCGCAGT
CTGGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAACAAAAAAAAACCATGCATGGTGCATCAGCAG
CCCATGGCCTCTGGCCAGGCATGGCGAGGCTGAGGTGGGAGGATGGTTTGAGCTCAGGCATTTGAGGCTGTCGTG
AGCTATGATTATGCCACTGCTTTCCAGCCTGGGCAACATAGTAAGACCCCATCTCTTAAAAAATGAATTTGGCCA
GACACAGGTGCCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGCTGGATCACTTGAGTTCAGGAGTTGGAG
ACCAGGCCTGAGCAACAAAGCGAGATCCCATCTCTACAAAAACCAAAAAGTTAAAAATCAGCTGGGTACGGTGGC
ACGTGCCTGTGATCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCCAGGAGGTGGAGGTTGCAGT
GAGCCATGATCGAGCCACTGCACTCCAGCCTGGGCAACAGATGAAGACCCTATTTCAGAAATACAACTATAAAAA
AATAAATAAATCCTCCAGTCTGGATCGTTTGACGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGTTGCA
CTGATGTCCGGAGAGACAGTGACAGCCTCCGTCAGACTCCCGCGTGAAGATGTCACAAGGGATTGGCAATTGTCC
CCAGGGACAAAACACTGTGTCCCCCCCAGTGCAGGGAACCGTGATAAGCCTTTCTGGTTTCGGAGCACGTAAATG
CGTCCCTGTACAGATAGTGGGGATTTTTTGTTATGTTTGCACTTTGTATATTGGTTGAAACTGTTATCACTTATA
TATATATATATACACACATATATATAAAATCTATTTATTTTTGCAAACCCTGGTTGCTGTATTTGTTCAGTGACT
ATTCTCGGGGCCCTGTGTAGGGGGTTATTGCCTCTGAAATGCCTCTTCTTTATGTACAAAGATTATTTGCACGAA
CTGGACTGTGTGCAACGCTTTTTGGGAGAATGATGTCCCCGTTGTATGTATGAGTGGCTTCTGGGAGATGGGTGT
CACTTTTTAAACCACTGTATAGAAGGTTTTTGTAGCCTGAATGTCTTACTGTGATCAATTAAATTTCTTAAATG

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FIGURE 354

CCGCGACATAGAGGAGGTGAGCCAGGGGCTGCTCAGCCTGCTGGGCGCCAACCGCGCGGAGGCGCAGCAGCGACG
GCTGCTGGGGCGCCACGAGCAGGTGGTGGAGCGGCTGCTGGAAACGCAAGACGGTGCCGAGAAGCAGCTGCGAGA
GATCCTCACC**ATG**GAGAAGGAAGTGGCCCAGAGCCTTCTCAATGCGAAGGAGCAGGTGCACCAGGGAGGCGTGGA
GCTGCAGCAGCTGGAAGCTGGGCTTCAGGAGGCTGGGGAGGAGGACACCCGTCTGAAGGCCAGCCTCCTTCAGCT
CACCAGAGAGCTGGAAGAGCTCAAGGAGATTGAGGCGGATCTGGAGCGACAGGAGAAGGAGGTCGACGAGGACAC
GACAGTCACAATCCCCTCGGCCGTGTACGTGGCTCAACTTTACCACCAAGTTAGTAAAATTGAGTGGGATTATGA
GTGTGAGCCAGGGATGGTCAAAGGCATCCATCATGGCCCCAGTGTGGCCCAGCCCATCCACCTGGACAGCACCCA
GCTCTCCAGGAAATTCATCAGCGACTACCTCTGGAGTCTGGTGGACACCGAGTGG**TAG**CCAGGAGCCTCGTGGCT
GCGTCTTGCACCCAGCGGGCATCTGCCGTGGTCAGATCCATTTCAAATGAAATGTGGGGACATAGATCTTTTTTT
TTTTTTT

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FIGURE 355

ATTACTCCCCTGGTGACGGGAGGGTTGTTTGAGATTCAGGAGGAGATCAGCAAGTTGAGGGTACATTTCACCATC
AGAGCAGGACAGACGGCCCTGATGCTGGCCGTCAGCCACGGGCGGGTGGACGTTGTCAAAGCCCTGCTGGCCTGT
GAGGCAGATGTCAACGTGCAAGATGATGACGGCTCCACGGCCCTCATGTGCGCCTGTGAGCACGGCCACAAGGAG
ATCGCGGGGCTGCTGCTGGCCGTGCCCAGCTGTGACATCTCACTCACAGATCGCGATGGGAGCACAGCTCTGATG
GTGGCCTTGGACGCAGGGCAGAGTGAGATTGCGTCCATGCTGTATTCCCGCATGAACATCAAGTGCTCGTTTGCC
CCAATGTCAGATGACGAGAGCCCTACATCATCCTCGGCAGAAGAGTAGCCGTGAGGGAGGCGGGGACCAGCCAGA
CCGGGAGCAAACCGTCCCTTGTCCCCGTCTCCTCCCTGTTCCCGTTCCTCCCTGGCCCACCCCACTCACACTCCC
CAAGGCCCACGGCTCAAAGGCAAGCGAGCTCTCCCTCTGCTTCCCTGGGGGAGCCCCGACGGCCACAGGACTCCA
GCTCCAAGTGGGTTTTCTTGGCTCCCCTGTTCAAAGTGGCCACAGCGCAGACCGAAGCAAAATTCTTGTATACAT
TGGCGCCAGGGCTGATGCTGGGGTGTGGGTTTTATGAAGAACATTGAGAACAATCAGCTGGTAATTATGGATGGA
GGAAGAGGGAGAGGAAAAAAATATTGTATTTTTGAATCATTGTTGCAGGAGGGGGTGGGAATCTTAGGATTTGTT
GCCAGATTTGAAAGTCACTGGAACTTGCATATTTTCATTTTAATCCTAAGTGTTATTACGCACCAGTTGGGGTTC
ACCCTTCATCCCCCACATTTAATTGTCTGATATAGAATAGTGTTGTGTCCACTGCCCCGCTAGACGGCTTTCTTA
GGGGAATTTTCTTCTGGTTGTTTCACAAGACAGATTCTGTCCTTGTCACCCGGGACAGAAAACTCAGTCTTTTCA
CCCTCATTCAGATGAAGGGACTCAGGACAGGCTCTGTGACTTACAGGGACCCAATCAATTCACAATGAGAAATTA
CCGGCCAGGCGTGGTGACTCACGTCTGTAATCCCAGCACTTTGGGAGGGCAAGGCAAGAGCTTGAGCTTGAGCCT
AGACGTTAAAGACCAGCCTGGGCAACACAGCAAGACCCATCTCTAC

FIGURE 356A

GACGCGAGGACCATGGCTGCCTCCGAGCGCCGCGCCTTCGCGCACAAGATCAACAGGACGGTGGCCGCAGAGGTG
CGGAAGCAGGTGTCCCGGGAACGCAGTGGCTCCCCCCACTCCAGCAGGCGCTGCAGCAGCTCCCTGGGGGTCCCA
CTGACTGAAGTTGTCGAGCCCCTGGACTTTGAGGATGTACTTCTGAGCCGGCCACCAGATGCTGAGCCCGGGCCC
CTCAGGGACCTGGTAGAATTCCCAGCTGATGACTTGGAGCTGCTGCTGCAGCCCCGGGAATGCCGGACCACGGAG
CCCGGGATCCCCAAGGATGAAAAACTGGATGCCCAGGTGAGGGCCGCGGTGGAGATGTATATTGAGGACTGGGTC
ATTGTCCACAGAAGGTATCAGTACCTGAGTGCAGCATACAGCCCCGTCACCACAGACACACAGCGGGAGCGACAG
AAGGGCCTCCCCCGCCAGGTCTTTGAGCAGGATGCTTCTGGAGACGAGAGGTCCGGCCCTGAGGACTCGAATGAC
TCCCGGCGTGGCTCGGGCTCCCCGGAAGACACCCCTCGAAGCAGTGGTGCCTCTAGCATCTTCGACCTGAGGAAC
CTGGCAGCTGACTCATTGCTGCCCTCTCTGCTAGAGCGGGCGGCCCCAGAAGATGTGGACCGGCGCAATGAAACC
CTTCGACGGCAGCACCGGCCCCCGGCCCTGCTCACCCTCTACCCGGCACCTGACGAGGATGAAGCCGTGGAACGC
TGTAGCCGCCCAGAGCCACCCCGCGAGCACTTTGGACAAAGGATCTTGGTCAAGTGTCTGTCGCTCAAGTTCGAG
ATTGAAATTGAGCCCATCTTTGGGATCTTGGCTCTGTATGATGTGCGGGAGAAAAAGAAGATCTCGGAGAACTTC
TACTTCGACCTGAACTCGGACTCCATGAAGGGGCTGCTTCGGGCTCATGGCACCCACCCTGCCATCTCCACCCTG
GCCCGCTCTGCCATCTTCTCTGTGACCTACCCCTCACCTGACATCTTCCTGGTCATCAAGTTGGAGAAGGTGCTT
CAGCAAGGGGACATCAGTGAGTGCTGTGAGCCTTACATGGTGTTGAAAGAAGTGGACACAGCCAAGAACAAAGAG
AAGCTAGAGAAGCTGCGCCTGGCGGCCGAGCAGTTCTGCACCCGCCTGGGCCGCTACCGCATGCCCTTCGCCTGG
ACGGCCGTGCACTTGGCCAACATCGTGAGCAGCGCTGGGCAGCTGGACCGGGACTCTGACTCGGAGGGCGAGCGC
CGGCCAGCCTGGACAGACCGCCGCCGTCGGGGGCCCCAGGACCGGGCGAGTAGTGGGGACGACGCCTGCAGCTTC
TCTGGCTTCCGTCCAGCCACGCTAACTGTCACAAACTTCTTTAAGCAGGAGGCTGAGCGACTCAGTGACGAGGAC
CTCTTCAAGTTCCTGGCTGACATGAGGCGCCCGTCGTCCCTGCTGCGGCGACTACGTCCTGTGACTGCCCAGCTC
AAGATCGACATTTCTCCGGCTCCTGAAAATCCCCACTTCTGCCTCTCCCCTGAGCTGCTTCATATCAAGCCCTAC
CCGGACCCCAGGGGCCGGCCCACCAAGGAGATTCTGGAGTTCCCCGCCCGCGAAGTCTATGCCCCCCATACCAGC
TACAGGAACCTGCTGTACGTGTACCCGCACAGCCTCAACTTCAGCAGCCGCCAGGGCTCCGTGCGCAACCTTGCT
GTGCGAGTGCAGTACATGACAGGCGAGGACCCCAGCCAGGCTCTGCCGGTCATCTTTGGCAAGTCCAGCTGCAGT
GAATTTACCCGCGAGGCCTTCACACCGGTGGTCTACCATAACAAGTCCCCCGAGTTCTACGAGGAGTTCAAGCTG
CATCTTCCAGCCTGCGTGACAGAGAACCATCACCTGCTGTTCACCTTCTACCATGTCAGCTGCCAGCCCCGGCCG
GGCACTGCCCTGGAGACACCCGTGGGCTTTACTTGGATCCCACTGCTGCAGCACGGGCGCCTGAGGACCGGCCCC
TTCTGTCTCCCAGTGTCTGTGGACCAGCCGCCGCCCAGCTATTCCGTGCTCACACCCGATGTGGCGCTTCCGGGC
ATGCGCTGGGTGGACGGTCACAAGGGCGTGTTCAGTGTGGAGCTCACAGCCGTGTCCTCTGTGCACCCCCAGGAC
CCCTACCTGGACAAATTCTTCACCCTGGTGCACGTCCTGGAGGAGGGAGCCTTCCCATTCCGGCTCAAGGACACT
GTGCTGAGCGAGGGCAACGTGGAGCAGGAGCTGCGGGCCAGTCTTGCAGCACTGCGCCTGGCCAGCCCCGAACCC
CTTGTGGCCTTCTCCCACCACGTGCTGGACAAGCTCGTGCGTCTGGTCATCAGGCCCCCGATCATCAGTGGCCAG
ATTGTGAACCTGGGCCGTGGAGCCTTTGAAGCAATGGCCCATGTAGTCAGCCTTGTTCACCGGAGCCTGGAGGCA
GCCCAGGATGCCCGCGGTCACTGCCCACAGCTGGCTGCCTACGTCCACTACGCCTTTCGCCTTCCTGGCACTGAG
CCCAGCCTCCCGGATGGGGCCCCTCCAGTGACAGTGCAGGCTGCCACACTGGCCCGTGGCTCTGGTCGCCCCGCA
AGCCTCTACCTGGCGCGTTCCAAGAGCATCAGCAGCAGCAACCCTGACCTCGCCGTGGCCCCTGGCTCTGTGGAT
GACGAGGTTTCCCGCATCCTGGCCAGCAAGCTGCTTCACGAGGAGCTGGCTCTGCAGTGGGTGGTCAGCAGCAGT
GCCGTACGCGAGGCCATCCTCCAGCACGCCTGGTTCTTCTTCCAGCTCATGGTGAAGAGTATGGCGCTGCACCTG
CTGCTTGGCCAGCGACTAGACACACCCCGCAAGCTGCGCTTCCCCGGACGCTTCCTGGACGACATCACTGCCTTG
GTGGGCTCTGTGGGCCTGGAGGTCATCACCCGTGTCCACAAGGATGTGGAGCTGGCCGAGCACCTCAACGCCAGC
CTGGCTTTCTTCCTCAGTGACCTTCTGTCCCTGGTGGACCGGGGCTTTGTCTTCAGCCTGGTCCGGGCCCACTAC
AAGCAGGTGGCCACGCGGCTCCAGTCGTCCCCTAATCCAGCAGCCCTGCTGACCCTGCGCATGGAATTCACCCGC
ATCCTGTGCAGCCACGAGCACTACGTGACCCTCAACCTCCCCTGCTGCCCCCTGTCACCTCCAGCCTCGCCCTCC
CCCTCTGTGTCCTCCACCACCTCCCAGAGCTCCACCTTCTCCAGCCAAGCCCCGGACCCCAAGGTGACCAGCATG
TTCGAACTGAGTGGACCATTCCGGCAGCAGCACTTCCTAGCTGGGCTCCTGCTGACGGAGCTGGCACTGGCCCTC
GAACCTGAGGCTGAAGGGGCATTCCTGTTGCACAAGAAGGCCATCAGTGCTGTGCACAGCCTGCTATGTGGCCAT
GACACTGACCCCCGCTACGCCGAGGCCACTGTGAAGGCTCGTGTGGCCGAGCTGTACCTGCCACTGCTATCGATT
GCACGGGATACCTTGCCACGGCTGCATGACTTTGCTGAGGGCCCAGGTCAGCGGTCAAGACTGGCCTCAATGCTT

FIGURE 356B

GACTCAGACACAGAAGGCGAAGGGGACATTGCGGGTACCATCAACCCCTCTGTGGCCATGGCCATTGCTGGTGGC
CCCCTAGCCCCTGGCTCCCGGGCCAGCATCTCCCAGGGGCCACCAACGGCTTCTCGCGCAGGCTGTGCCCTCTCT
GCTGAGTCAAGCCGGACCTTGCTGGCGTGTGTGCTGTGGGTGCTGAAAAACACCGAGCCGGCGCTCCTGCAGCGC
TGGGCCACTGACCTGACACTCCCCCAGCTGGGACGTCTGTTGGATTTGCTGTACCTTTGCCTAGCTGCCTTTGAG
TACAAGGGGAAAAAGGCCTTTGAACGCATCAACAGCCTCACATTCAAAAAATCTCTGGATATGAAGGCGCGGCTA
GAGGAAGCCATTCTGGGTACCATCGGAGCTCGACAAGAAATGGTTCGGCGAAGTCGTGAGAGGAGCCCGTTTGGG
AATCCGGAGAATGTGCGCTGGCGGAAGAGCGTCACACACTGGAAGCAAACCTCAGACCGCGTGGACAAGACCAAG
GATGAAATGGAACACGAGGCCTTGGTGGAAGGGAACCTGGCAACCGAGGCAAGCCTAGTGGTTCTGGACACACTG
GAGATCATCGTGCAGACGGTGATGCTTTCAGAAGCCCGGGAGAGCGTCTTGGGGGCAGTGCTGAAGGTTGTGCTG
TACAGCCTGGGCAGTGCCCAGAGTGCCCTCTTCTTGCAGCATGGCCTGGCCACCCAGAGGGCCCTTGTGTCCAAG
TTCCCGGAGCTGCTGTTCGAGGAGGACACGGAGCTGTGTGCCGACCTGTGCCTGAGGCTCCTACGACACTGTGGC
AGCCGCATCAGCACCATCCGCACGCACGCCAGCGCCTCGCTGTACCTGCTCATGCGACAGAACTTCGAGATCGGC
CACAACTTTGCCCGTGTGAAGATGCAGGTCACCATGTCTCTCTCGTCCCTGGTGGGGACGACGCAGAACTTCAGT
GAAGAGCACCTGCGACGTTCACTCAAAACCATCCTCACCTATGCTGAGGAGGACATGGGGCTGCGGGACAGCACC
TTCGCAGAGCAGGTCCAGGACCTGATGTTCAACCTGCACATGATCCTGACGGACACGGTGAAGATGAAGGAACAC
CAGGAGGACCCTGAGATGCTCATCGACCTCATGTACAGAATTGCCCGGGGCTACCAGGGCTCACCGGACCTTCGG
CTGACCTGGTTGCAGAACATGGCCGGGAAGCACGCGGAGCTGGGCAACCACGCCGAGGCCGCCCAGTGCATGGTG
CACGCGGCCGCCCTCGTGGCTGAGTACCTCGCCCTGCTCGAGGACCACCGCCACCTGCCCGTGGGCTGCGTTTCC
TTCCAGAACATCTCATCCAACGTGCTAGAGGAGTCCGCCATCTCCGACGACATCCTGTCGCCCGACGAGGAGGGC
TTCTGCTCCGGGAAGCACTTCACTGAGCTGGGGCTGGTAGGGTTGCTGGAACAGGCAGCCGGCTACTTCACCATG
GGCGGGCTCTACGAGGCGGTGAATGAGGTCTACAAGAACCTCATCCCCATCCTGGAAGCCCACCGTGACTACAAG
AAGCTGGCCGCGGTGCACGGCAAACTGCAGGAGGCCTTCACCAAGATCATGCACCAGAGTTCCGGCTGGGAGCGC
GTGTTCGGGACGTATTTCCGCGTGGGCTTCTACGGCGCCCACTTCGGTGACCTGGATGAGCAGGAGTTTGTGTAC
AAGGAGCCATCGATCACGAAGCTGGCAGAGATCTCACACCGGCTGGAGGAGTTCTACACGGAGAGATTTGGCGAC
GACGTCGTTGAGATTATCAAAGACTCTAACCCTGTGGACAAGTCCAAGCTTGACTCACAAAAGGCCTACATCCAG
ATCACGTATGTGGAACCGTACTTTGATACCTACGAGCTCAAGGACCGGGTGACCTACTTTGACCGCAACTATGGG
CTTCGCACATTCCTGTTCTGCACGCCGTTCACGCCGGATGGGCGCGCACACGGGGAGCTGCCCGAGCAACACAAG
CGTAAGACGCTGCTCAGCACCGACCACGCCTTCCCCTACATCAAGACTCGCATCCGTGTGTGCCACCGGGAGGAG
ACGGTGCTGACGCCAGTGGAGGTGGCCATCGAGGACATGCAGAAGAAGACACGGGAGCTGGCCTTTGCCACCGAG
CAGGACCCACCAGATGCTAAGATGCTACAGATGGTGCTTCAGGGCTCTGTAGGGCCCACCGTGAACCAGGGTCCC
CTGGAGGTGGCCCAGGTGTTTTTAGCAGAGATCCCGGAAGACCCCAAGCTCTTCCGGCATCACAACAAATTGCGG
CTCTGCTTCAAGGACTTCTGCAAGAAATGTGAGGATGCGCTGCGGAAAAATAAGGCCCTGATTGGGCCGGACCAG
AAGGAGTACCACCGTGAGCTGGAGCGCAACTACTGCCGCCTGCGGGAGGCTCTGCAGCCCCTGCTTACCCAGCGC
CTGCCCCAGCTGATGGCACCCACCCCACCCGGCCTCAGGAACTCCTTGAACAGAGCAAGTTTCCGAAAGGCAGAC
CTC**TGA**GCCCACAAGGACCAAAGCTGTACCTAGAGGAACCAGCACCCGGGCCTCAGCTGTCTGTGCTGCGAGGGG
AGTCTGCCCTGGTGCCCACTGGGCTGTGGGGTGACCACACTGTACTTGGGGCTGGGCCCTCTGCCCCTGTGTCCC
CATCTGTGTGCACTGATGCTTCCTCCCTTTTTTAATTTAAAATGGTTTTTATAAGC

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FIGURE 357

GTGAGGTACCAGATTCAGCCCATTTGGCCCCGACGCCTCTGTTCTCGGAATCCGGGTGCTGCGGATTGAGGTCCC
GGTTCCTAACGGTGGGATCGGTGTCCTCGGGATGAGATTTGGCGTTTCCTCGGGGCTTTGGTGGGATCGGTGTCC
TCAGGATGAGATTTAGGGTTTCCTCGGGGCTTTCGGGATCTTCACCTAATATCCGGACTGCAAGATGGAGGAAGG
CGGGAACCTAGGAGGCCTGATTAAGATGGTCCATCTACTGGTCTTGTCAGGTGCCTGGGGCATGCAAATGTGGGT
GACCTTCGTCTCAGGCTTCCTGCTTTTCCGAAGCCTTCCCCGACATACCTTCGGACTAGTGCAGAGCAAACTCTT
CCCCTTCTACTTCCACATCTCCATGGGCTGTGCCTTCATCAACCTCTGCATCTTGGCTTCACAGCATGCTTGGGC
TCAGCTCACATTCTGGGAGGCCAGCCAGCTTTACCTGCTGTTCCTGAGCCTTACGCTGGCCACTGTCAACGCCCG
CTGGCTGGAACCCCGCACCACAGCTGCCATGTGGGCCCTGCAAACCGTGGAGAAGGAGCGAGGCCTGGGTGGGGA
GGTACCAGGCAGCCACCAGGGTCCCGATCCCTACCGCCAGCTGCGAGAGAAGGACCCCAAGTACAGTGCTCTCCG
CCAGAATTTCTTCCGCTACCATGGGCTGTCCTCTCTTTGCAATCTGGGCTGCGTCCTGAGCAATGGGCTCTGTCT
CGCTGGCCTTGCCCTGGAAATAAGGAGCCTCTAGCATGGGCCCTGCATGCTAATAAATGCTTCTTCAG

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FIGURE 358

AGCGTTTTAATACGATGGTGTCCCCGCGGGATCAAACTTCAGCGTCACAGCTGAGGACTGGCTTCGTGGTCCCTG
ATGGGAGAGCATGAACAGGTGGTATGTGAAGCCCTTGGAGACCAGCTCTTCCAAAGTCAAAGCCAAGACCATTGT
GATGATTCCCGACTCCCAGAAGCTCCTGCGATGTGAACTTGAGTCACTCAAGAGCCAGTTACAGGCCCAGACCAA
GGCTTTCGAGTTCCTGAACCACTCAGTGACCATGTTGGAGAAGGAGAGCTGCTTGCAGCAAATCAAGATTCAGCA
GCTTGAAGAGGTGCTGAGCCCCACAGGCCGCCAGGGAGAGAAGGAGGAGCACAAGTGGGGCATGGAGCAGGGCCG
GCAGGAGCTGTATGGGGCCCTGACCCAAGGCCTTCAGGGGCTGGAGAAGACCCTGCGTGACAGTGAGGAGATGCA
GCGGGCCCGCACCACTCGCTGCCTGCAGCTGCTGGCCCAGGAGATCCGGGACAGCAAGAAGTTCCTGTGGGAGGA
GCTGGAACTGGTGCGGGAGGAGGTGACCTTCATCTATCAGAAGCTCCAAGCGCAGGAGGATGAGATCTCAGAGAA
CTTGGTGAACATTCAGAAAATGCAGAAAACGCAGGTGAAATGCCGCAAAATCCTGACCAAGATGAAGCAGCAGGG
TCATGAGACAGCCGCCTGTCCGGAGACTGAAGAGATACCGCAGGGAGCCAGTGGCTGCTGGAAGGATGACCTCCA
GAAGGAACTGAGTGATATATGGTCTGCTGTGCACGTGCTGCAGAACTCCATAGACAGCCTCACTTTGTGCTCGGG
GGCCTGTCCCAAGGCCTCGAGCCTAAGAGGCCACAAGGGGCACCAGTGCCTGAGCCCTCCACTCCCCTCCTGGGA
CTCTGACTCCGACTGTGACCAGGACCTCTCCCAGCCACCTTTCAGCAAGAGCGGCCGCTCCTTCCCACCCGCTTG
AGCAGCCGGGACTGCTCTCCCTGAAGACCCCTCCAGAGAGAAAATAAACTAGCCCAGACCCTCCTCTAGCCCCGA
CTGTTAGTCTTGCTGCTTCCTGTGCCTAGGAATCCCCCTGCCCTCCTAGTTTACCCCTCATTGTTGGGGGGGAGG
GGTGTAGAGACCCCAGGGGTCATTCGGGATGTGTGGGCTTGGAATCAGGGGACATCTGAAGCCAGATTTAATATA
TGACAAGGCAAGGAGTCATTCTGTCCAGACACGAGCAGCCAGACAGACTTCCACACTGGCCACAGAGCCTTCCTT
TCTGGGGGGCCCTGGCGAATGGGGAAACTGAGGCCCAGAGAGGGAGAGGCGCGGCCCAGGGACATACTCTGAAGC
CCCTCCCTCCTATTACCCTCGGAGCCCCGCCCACCCCAGGGTCCTCCCTCTCTACTTCCATTCTTGGTTCCTTCC
TACAATCGATGCTAACACGCCCCGCCTCCAAGATCACGGAGGCCCCGCCCC

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FIGURE 359

AGTCTGCGCGGCGCGGCCAGGCCCGGCCGACCGCGTCTCGGTCTTCGCGTCTGCCAGCCTGGCTGGCAGTCCGTC
TGTCCATCCCGCCGCGCCGGGGCAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCTCGACGCGAGTGAGTG
TCGTGGTTGGGGTGCTGGACCCAGAGTGCCTACCCTCGCCTGCCTGGGCCTCAGTTTCCACATCTGCACAATGGG
GGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGTGAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCC
ATAGGGCGCTTTCACAGGCCTGGCCTTCACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCAT
CCCCTGCTTTGTCTTCGTGGAGTCGGTGCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCACGGA
CACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCTACCCAGGGCCTGAGGC
TGCCAGCCGAGTGCCTCCTGCTCTTGTCTACGCACTGGTCACTGCCGGGCCCACCCTCACGATCCTGCTGGGAGA
GCTGGCGCGTGCCTTTTTCCCTGCACCACCTTCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGC
CTGCTGCCGCTTCAGCCCCCCAGTGCGGAGGCTGGTCCGCTTCCTGGGGGTCTACTCCTTCGGCCTCTTCACCAC
GACCATCTTCGCCAACGCGGGGCAGGTGGTGACCGGCAATCCCACGCCACACTTCCTGTCCGTGTGCCGCCCCAA
CTACACGGCCCTGGGCTGCCTGCCACCTTCTCCGGATCGGCCAGGTCCCGACCGCTTTGTCACTGACCAGGGTGC
CTGCGCTGGCAGTCCCAGCCTCGTGGCCGCCGCGCGCCGCGCCTTCCCCTGCAAGGATGCGGCCCTCTGCGCCTA
CGCGGTCACCTACACAGCGATGTACGTGACTCTCGTGTTCCGCGTGAAGGGCTCCCGCCTGGTCAAACCCTCGCT
CTGCCTGGCCTTGCTGTGCCCGGCCTTCCTGGTGGGCGTGGTCCGCGTGGCCGAGTACCGAAACCACTGGTCGGA
CGTGCTGGCTGGCTTCCTGACAGGGGCGGCCATCGCCACCTTTTTGGTCACCTGCGTTGTGCATAACTTTCAGAG
CCGGCCACCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCCACCATGGATAGCCCCCTCGA
AAAGAACCCGAGGTCTGCAGGCCGCATTCGACACCGGCACGGCTCACCCCATCCAAGTCGCAGAACTGCGCCCGC
CGTGGCCACCTGATCCCCAGCTGTGTCTCCTCCAGGGCCCCAGCCATGTGTTCGTCGCCCCGTGTGCCCCGTCCT
CGATTGAGGTCTGAGCCGACGCCCTTGCCCCTGCCCCTACCCCTGCCAGCGCCCACCCCCAGCCAGGGCCCCTCG
CCTTCCTCCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTGGCCGGAAGCTGCTGCTGCCCACGCCCCTG
CTGCGGGACCTGTACACCCTGAGTGGACTCTATCCCTCCCCCTTCCACCGGGACAACTTCAGCCCTTACCTGTTT
GCCAGCCGTGACCACCTGCTGTGAGGCCCGACCACCCACCCAGAATCTGCCCAGTCCCCACTTCTTCCCTGCCAC
GCGTGTGTGTGCGTGTGCCACGTGAGTGCCAAAGTCCCCTGCCCCCCAAGCCAGCCAGACCCAGACATTAGAAGA
TGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATATCCCGATGGGCACAAATGGAAGGTG
CGCACTTGCCCCTACTATTGCCCTTTTAAGGGCCAAAGCTTGACCCCATTGGCCATTGCCTGGCTAATGAGAACC
CCTGGTTCTCAGAATTTTAACCAAAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCTCACTTCTTAGAATCCT
CCTGCAAGAGGGCAACTCCAGCCAGTGTTCAGCGACTGAACAGCCAATAGGAGCCCTTGGTTTCCAGAATTTCTA
GAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGA
GGTCATTGTTTGTCATTGAGTCTTCTCTCAGAATCAGCGAGCCCAGCTGTAGGGTGGGGGGCAGGCTCCCCCATG
GCAGGGTCCTTGGGGTACCCCTTTTCCTCTCAGCCCCTCCCTGTGTGCGGCCTCTCCACCTCTCACCCACTCTCT
CCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGGTTTTGGGGTTCAGGGTGCTGTGTCTCCCCTTGCC
TGTGCCCAGGTCATCCCAAACCCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTTCTTCTTTTTCTTGGAAC
CTGCCCCTGTTCTTCACACTGCCCCCCATGCCTCAGCCTCATACAGATGTGCCATCATGGGGGGCATGGGTGGAG
CAGAGGGGCTCCCTCACCCCGGGCAGGCAAAGGCAGTGGGTAGAGGAGGCACTGCCCCCCTTTCCTGCCCCCTCC
TCATCTTTAATAAAGACCTGGCTTCTCATCTTTAATAAAGACCTGTTTGTAACAG

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FIGURE 360

ACTTAGAGGCGCCTGGTCGGGAAGGGCCTGGTCAGCTGCGTCCGGCGGAGGCAGCTGCTGACCCAGCTGTGGACT
GTGCCGGGGGCGGGGGACGGAGGGGCAGGAGCCCTGGGCTCCCCGTGGCGGGGGCTGTATC**ATG**GACCACCTCGG
GGCGTCCCTCTGGCCCCAGGTCGGCTCCCTTTGTCTCCTGCTCGCTGGGGCCGCCTGGGCGCCCCCGCCTAACCT
CCCGGACCCCAAGTTCGAGAGCAAAGCGGCCTTGCTGGCGGCCCGGGGGCCCGAAGAGCTTCTGTGCTTCACCGA
GCGGTTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCGCTGGGGTGGGCCCGGGCAACTACAGCTTCTC
CTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTCGCCTGCACCAGGCTCCCACGGCTCGTGGTGCGGTGCGCTT
CTGGTGTTCGCTGCCTACAGCCGACACGTCGAGCTTCGTGCCCCTAGAGTTGCGCGTCACAGCAGCCTCCGGCGC
TCCGCGATATCACCGTGTCATCCACATCAATGAAGTAGTGCTCCTAGACGCCCCCGTGGGGCTGGTGGCGCGGTT
GGCTGACGAGAGCGGCCACGTAGTGTTGCGCTGGCTCCCGCCGCCTGAGACACCCATGACGTCTCACATCCGCTA
CGAGGTGGACGTCTCGGCCGGCAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGCACCGAGTG
TGTGCTGAGCAACCTGCGGGGCCGGACGCGCTACACCTTCGCCGTCCGCGCGCGTATGGCTGAGCCGAGCTTCGG
CGGCTTCTGGAGCGCCTGGTCGGAGCCTGTGTCGCTGCTGACGCCTAGCGACCTGGACCCCCTCATCCTGACGCT
CTCCCTCATCCTCGTGGTCATCCTGGTGCTGCTGACCGTGCTCGCGCTGCTCTCCCACCGCCGGGCTCTGAAGCA
GAAGATCTGGCCTGGCATCCCGAGCCCAGAGAGCGAGTTTGAAGGCCTCTTCACCACCCACAAGGGTAACTTCCA
GCTGTGGCTGTACCAGAATGATGGCTGCCTGTGGTGGAGCCCCTGCACCCCCTTCACGGAGGACCCACCTGCTTC
CCTGGAAGTCCTCTCAGAGCGCTGCTGGGGGACGATGCAGGCAGTGGAGCCGGGGACAGATGATGAGGGCCCCCT
GCTGGAGCCAGTGGGCAGTGAGCATGCCCAGGATACCTATCTGGTGCTGGACAAATGGTTGCTGCCCCGGAACCC
GCCCAGTGAGGACCTCCCAGGGCCTGGTGGCAGTGTGGACATAGTGGCCATGGATGAAGGCTCAGAAGCATCCTC
CTGCTCATCTGCTTTGGCCTCGAAGCCCAGCCCAGAGGGAGCCTCTGCTGCCAGCTTTGAGTACACTATCCTGGA
CCCCAGCTCCCAGCTCTTGCGTCCATGGACACTGTGCCCTGAGCTGCCCCCTACCCCACCCCACCTAAAGTACCT
GTACCTTGTGGTATCTGACTCTGGCATCTCAACTGACTACAGCTCAGGGGACTCCCAGGGAGCCCAAGGGGGCTT
ATCCGATGGCCCCTACTCCAACCCTTATGAGAACAGCCTTATCCCAGCCGCTGAGCCTCTGCCCCCCAGCTATGT
GGCTTGCTCT**TAG**GACACCAGGCTGCAGATGATCAGGGATCCAATATGACTCAGAGAACCAGTGCAGACTCAAGA
CTTATGGAACAGGGATGGCGAGGCCTCTCTCAGGAGCAGGGGCATTGCTGATTTTGTCTGCCCAATCCATCCTGC
TCAGGAAACCACAACCTTGCAGTATTTTTAAATATGTATAGTTTTTTT

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FIGURE 381

CAGAGGCCCAGAGTGGCTCGCCTGGAGTCTCTGTGGCGCGGTTTCCTGTACCTGCCTTGGGATCCGGAGGGAGGA
AGCTGGGACACCCGGGAGTCAGGAA**ATG**GACTCGGTGGCTTTTGAGGATGTAGATGTGAACTTCACCCAGGAGGA
GTGGGCTTTGCTAGATCCTTCCCAGAAGAATCTCTACAGAGATGTGATGTGGGAAACCATGAGGAATCTGGCCTC
TATAGGGAAAAAATGGAAGGACCAGAACATTAAAGATCACTACAAACACCGAGGGAGAAATCTAAGAAGTCATAT
GTTAGAAAGACTCTATCAAACTAAGGATGGTAGTCAGCGTGGAGGAATTTTTAGCCAGTTTGCAAATCAGAATCT
GAGCAAGAAAATCCCTGGAGTGAAACTCTGTGAAAGCATTGTATATGGAGAAGTCAGCATGGGTCAGTCATCCCT
TAATAGACACATCAAAGATCACAGTGGACATGAACCAAAGGAATATCAGGAATATGGAGAGAAGCCAGATACACG
TAACCAGTGTTGGAAACCCTTCAGTTCTCACCACTCCTTTCGAACACATGAGATAATTCACACTGGAGAGAAACT
CTATGATTGTAAGGAATGTGGAAAAACCTTCTTTTCTCTCAAAAGAATTAGAAGACACATCATCACACACAGTGG
ATATACACCATATAAATGTAAGGTGTGTGGGAAAGCTTTTGATTATCCCAGTAGATTTCGAACACATGAAAGAAG
TCACACTGGAGAGAAACCCTATGAATGTCAGGAATGTGGAAAAGCCTTCACTTGTATCACAAGTGTTCGAAGACA
CATGATAAAGCACACTGGAGATGGACCTTATAAATGTAAGGTATGTGGGAAACCCTTTCATTCTCTGAGTTCATT
TCAAGTGCATGAAAGAATTCACACTGGAGAAAAACCCTTTAAATGTAAGCAATGTGGTAAAGCCTTCAGTTGTTC
CCCAACCTTACGAATACATGAAAGAACCCATACTGGAGAGAAACCTTATGAATGCAAGCAGTGTGGGAAGGCCTT
CAGTTATCTCCCCTCCCTTCGACTACATGAAAGAATTCACACTGGTGAGAAACCCTTCGTATGTAAACAATGTGG
TAAAGCCTTTAGATCTGCCAGTACCTTTCAAATACATGAAAGGACTCACACTGGAGAAAAACCTTATGAATGTAA
GGAATGTGGGGAAGCATTCAGTTGTATCCCAAGTATGCGAAGACACATGATAAAACATACTGGAGAAGGACCTTA
TAAATGTAAGGTATGTGGGAAACCCTTTCATTCTCTGAGTCCATTTCGAATACATGAAAGAACTCACACTGGAGA
GAAACCTTATGTATGTAAACATTGTGGTAAAGCTTTCGTTTCTTCAACATCAATTCGAATACATGAAAGAACTCA
TACTGGAGAGAAACCCTATGAGTGTAAGCAATGTGGGAAAGCCTTCAGTTATCTCAACTCCTTTCGAACACATGA
AATGATTCACACTGGTGAGAAACCCTTTGAATGTAAGCGATGTGGTAAAGCCTTTAGATCTTCTAGTTCCTTTCG
ACTACATGAAAGGACTCACACTGGACAGAAACCCTATCATTGCAAGGAATGTGGGAAAGCCTATTCTTGCCGTGC
CAGCTTTCAGAGACACATGTTAACACATGCTGAAGATGGACCACCTTATAAATGCATGTGGGAAAGCCTTT**TAA**TG
CTCTGGGTTCATGTCAGATACATTAAAATACTCACTGAAGAGAAGCCCTATGAATGTAAGTAACGTGGGAAAGCA
TGAAATTCTGTCAGTGCCTTTTTTAATACATGAAAGAATTCTAGAGAGAAGCCATATACATGTAAGTAACATGGG
AAAGCTTTCAATCATTTTAGTTCCTTTCAAATACATGAAAGAACTCATCATGGAGAAAACCAAACAAATGCTTTT
TGGAAAGGAACCCATATTTGAGAGAAACCCTGGGTAAAGGGTGTAGGAAAGGTTTTGTCATCACACAACCCTGTC
ACACATGAATGTGTAGTGGAGAGAACCTTGGTAAATGTAAAGAGTGTGGGAGAGCCTTTAGTCATTTTAGTTCCA
CTTGAAGCCATGAAAGAACACACAAAAGAGAAAGCTCTTGAATATAAGCAATGTCCACACGTTTTTAGCCAGCCC
ACATGCTTTCAACAACATGTAAGAATGTACCCTGGATCAAAACACTATAAATGTGAAAACTACAAGGAAGGTTTT
CCATTATACTTTTAAAGTCATTTGAGGGCTCTGGCTCTGTGGCTTTGTGGGTTAAAGTACTTGTCTGGCAAACAG
GAGATGCTGGATTTCAATCCCAGCAGGGCCTCACTAGTTGAGGTATTGAATTTGAACAGATGTTTTGGCTCTGGC
TGGGTGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGAGGATCACTTGAGGTCAGGAGT
TTGAGACCAGTGTGCAAAACATAGCAAGACCTCATCTC

FIGURE 361

GCTGCGCCGCCATTAAGAGCTAGCCCTCAGAACTATCCTCTCTAAGGTTTCACAGTCCTGCCCAAGATGGCCGTC
TCGGCTCTGGCACCGCCCCCACTCCTGCCTCTCCCAACATGGCGACCCTGAGTCTCCGTTCCCGGTGCGGAACGT
ACGACCGGAAGTGACGGGGTCCAGAAATTTCCGCTTTCTTTCTGCAGCAGGAACCGCGGCTGCTGGACAAGAGGG
GTGCGGTGGATACTGACCTTTGCTCCGGCCTCGTCGTGAAGACACAGCGCATCTCCCCGCTGTAGGCTTCCTCCC
ACAGAACCCGTTTCGGGCCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCTGCTACCCATGTGCTGG
GCCGTGGAGGTCAAGAGGCCCCGGGGCGTCTCCCTCACCAATCATCACTTCTACGATGAGTCCAAGCCTTTCACC
TGCCTGGACGGTTCGGCCACCATCCCATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGAC
GAGCCAGGCACGGCTGCCTGTCCTAATGGCAGCTTCCACTGCACCAACACTGGCTATAAGCCCCTGTATATCCCC
TCCAACCGGGTCAACGATGGTGTTTGTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAG
AACACCTCAGAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAG**ATG**GCCGAGGTCACCCGCGAAGGGTTCC
GTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG
CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAGAG
AGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCCAACAGGAGCAGGAGCTGG
CGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTCACCCGG
AGCTGGACACAGATGGGGATGGGGCGTTGTCAGAAGCGGAAGCTCAGGCCCTCCTCAGTGGGGACACACAGACAG
ACGCCACCTCTTTCTACGACCGCGTCTGGGCCGCCATCAGGGACAAGTACCGGTCCGAGGCACTGCCCACCGACC
TTCCAGCACCTTCTGCCCCTGACTTGACGGAGCCCAAGGAGGAGCAGCCGCCAGTGCCCTCGTCGCCCACAGAGG
AGGAGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGG
GGGAGCAGCCCAAGGAGGCCCCACCGCCACTGTCACCCCCGCAGCCGGCCAGCCCTGCTGAGGAAGACAAAATGC
CGCCCTACGACGAGCAGACGCAGGCCTTCATCGATGCTGCCCAGGAGGCCCGCAACAAGTTCGAGGAGGCCGAGC
GGTCGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGAGATTTCTTTTGACTTTGGCCCCAACGGGG
AGTTTGCTTACCTGTACAGCCAGTGCTACGAGCTCACCACCAACGAATACGTCTACCGCCTCTGCCCCTTCAAGC
TTGTCTCGCAGAAACCCAAACTCGGGGGCTCTCCCACCAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACC
ACGACAAGTTCAGTGCCATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC
GCCTCCTGTGCGGGAAAGAGACCATGGTGACCAGCACCACAGAGCCCAGTCGCTGCGAGTACCTCATGGAGCTGA
TGACGCCAGCCGCCTGCCCGGAGCCACCGCCTGAAGCACCCACCGAAGACGACCATGACGAGCTC**TAG**CTGGATG
GGCGCAGAGGTGGGCGGGGAGGTGGAGTCTCGTCGGCCTGCCCCAGCAAGGGGAGGCGGCGGGCCCTGAGGAAGA
TGGACCCACATGGCCACTCTATCAACCTGTGTCCCCATGTTCCCTGCTTTTTTGTTTTGTTTTTTTGAGGTGGAG
TCTCACTCTTTGGCCCAGGCTGGAGTGCAGTGATGCGACCTCAGCTGACTGCAACCTCTACCTCCCGGGTTCAAA
CAATTGTCTTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGCCTGGCTAATTTTTAGTAG
AGATGGGGTTTCACCATGTTGGCCTGGATGGTCTCGAACTCCTGACCTCAGATGATCCACCTGCCTTGGCCTCCC
AAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCCATCTCCTGCCTTTTTTTTTTTGGATGGAGTTTCAC
TCTTGTTGCCGAGATCATGCTACTGCACTCTCCAGCCTGGGCTACAGAGTGAGACTCTCAAAAAAAAAAAATAAT
AATAATAAGAGAAAATAGACAAGGTCTCCAGGCTGGTCAACTCCTGGCCTCAAATGATCCTCCCACCTCAGCCTC
CCAAGCAGCCGGGACTACAGGCAAACATCACCATGTCCAGCTGTCCCCAGCTTTCTAATCTGGTCTTTCTCTTGC
CCCAGAACCTCAAGAAGGCATGAAGCCAGCCCCTGCAGTGCCGTCCACCCGCCCCTCTGGGCCTGCCTGTGGCTC
TGTTGCCCTCCTCTGTGGCGGCAGGACCTTTGTGGGGCTTCGTGCCCTGCTCTGGGGCCCAGGCGGGGCTGGTCC
ACATTCCCAGGCCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCCTGGGCCCCCCACCTTGGTGACT
CGCCCCACCACCCCCAGCCCTGTCCCTGCCACCCCTCCTAGTGGGGACTAGTGAATGACTTGACCTGTGACCTCA
ATACAATAAATGTGATCCCCCACCC

FIGURE 362

CACAAAAAAAGACAAAAAAAAAAAAAGAAAATATTTTGGCAGGTTATGTTTACCAACTGGGGCGGGGGTGGGGGG
GGCCCAGGGAGCAGGGCTTAGGGGCTAGCAGCCCACGGGGCCACACAGAGAAACAACCACGCAGACAGTCACACC
ACGGGGACACACGGACAGACGCAGACGGACACAGCGACATGCCCCAGACACGTTAAGGGACTGGTTGGCCAAACT
CAGACACGTGGACAGGGATAGACAGAAAGAGACAGAAGCTGGGGCTACGTCCATGTGGACACAGACCACAGATGT
GGGCACACGAATCCATCCACCTGTCCACGTGCACACGTGAATGTAGCGATAGATATTTGGACATCAAATTTGGAC
ACCAGGTCACGGAGAAACACAAACACCACCCAGGAACACGCAGACATATGCCCATAGCATCCCACAGGCCCAGGC
AGGAGGTCCCACCCCAGACCCTGCCCCAGACGCTCCCTCACCCTCTCGGCCCCCTCGCCCTGGCCCCCAGGTTCT
CTGCAGAGATCTCTCCTGGACCCCCAGCGGTCTCCTTGGCGCCCACGAACACAGGCGTGCACACGCAGCGCACAT
GCATTGAGACACACGATACCTCGTTCCACCTTGGCGTCACGGTGGGCTGGAGGCAGCCCCCCCCCCCCACAACACT
TGAGGCCAAAGGACACCCCTGTCCCCGGGGCTCAGCCTCCCCCTGGGCCGAGGCCTTGGCCCACACAGCTGAGGG
AGAGGCCCAGCCCTGAGCCTCCCCCACCAGGACTGGGCCTCCCCGGCAGCAAGACCCCGGCACTCCCCGCCAGGC
CCAGGGTGGGGTGGATGGGCCCAAAGGCCCAGCCCCACACTCCTTTCCCGTCCACTTGTCACCTACCTATCCCCT
TTCGGTTTGTTGGGTTTTTCGTCTTTCCAGATTGCAGTGGACACAGCCCCCGATCTCGAGCCCCGGCCCCCGGCT
TCTGTCTGGACATTGCATCGCCCTAGTTTCTTTCTTTAAAAAAAAAAAATTCCAACAGAAGCCACAGGCCGGAG
CCCCTGGGAGCCCTCGCACCGCTCCCCACCCCACTCAGCGGCCCCATCGGAACTGAGAATTGCAAAACCCCCGAC
TTTAGCTATAGTTAAGTTGCCTTCCCCCGGTGTCCCCACGTTTGGTGTCTGGCTATGGCGCCCCCATCTGACTGT
CCAGCTCTCTCTCCCCCACCCCTCCCGGTGTTGTTATTAAACGTCTGTGGAGCTTCTGCTGCAAGGAACAAAAAA
GAAAAAAATCAAAAAAGCGACAAAAAAACACAAACAGAAGAGGAAAAAAAAGCAACAAAAAAAGAAAACACACAG
AAGAGATTTAAAAAAAAAAAAGGAAAAAAAAAAAAGACATAAACTGGCACCAGTTAACTTTCTTGTACTTTTTTG
CTGAATTTAGCTTCTTGTAGTTTTAACTTATTGCTATGTTAACTATTTATTCTCCTCGTTGCCCTGTAAGGACAT
CCGTGTATATTTCTGTTACTTCATCCGGTTTGCAAGTTAAAGGAACGACAATGTTCTCTTTGTTTCTTTAAGTTT
TGCCGAGACATGGTTATGCCTAATTTATTTATAAAAGGGGAAGTGGAATCATTAAAGTAATAATAATTATTAATA
ACAGTAATGGTAGCCGAGTGGCACGCGGGGGCGTGTGCTCTGCGGGACAGTCCCCACGGCCAGCGACGTCCAGGT
CACCAATGGGATTCTTTTTGCTCTTGTCTTGAGAATTTTTTCAGTCCTATTTAGCTGGTGAAATCCCTAGCTTGT
TCTTGATACACGAACCTATTTATTCTCGTGGTTTTAAGTCCTCCCTGCCCTCTCTCCTCTCCCCTGCAGCAGGGC
AGGGACCCCTCTCCCCTGCTGTCTCTTGGGGCTCTCTCCCCTCCGCCCTCTGCATTCGGGAACACGCACGTCCGC
GTGGGAAGCTTGCAGCAGGGCGTCCGAGCAATAAGGGCTGGGTTTGTCCCCCACCCTGGGGGGGGCCAGGCTCCA
GAGAGGGGGCACCTCCCCACACACCCCCCCCCCACCGAGGCCTAGGCCCCTGCCACCCCCAAGACTGGGAGGGGA
CTTCTTTTTCTAAAACACAAAACTCAGCCCAGCCAGGCCCCCTCCCTGGAGGCCAGCCCCTCCCCGCAGGGGGCC
AGGCCGGGGCTCCCAGGCGAGGGGGACTTGGGGCTTCCACGTCCCTGGGGGGCAGGGGCCAGGCCAGGGGGGAGG
GGGCTCAGCCCCTCCACCCCTCCCTTCATCCTGTTATTTATTCGGAAGGTTTCAAATCACGACAGAGTCCATGTT
GGAGGTGATAAAAAACTGTAAAAAAAAAAAAAAAAAAAAAGACAAAACAAAAGACAAAAAAAAAAAAAAAA

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FIGURE 363

AGAGCGCGGAGCGCGCAGCGCGGGCCGGAGGGAGGGAGGGAGGGTGGGCGAGGGGAGAGGACTTGAACACACGGG
ACCGGACAGGACCGACCGAGGGGCGGCGGCGAAAGGCAGAGCGCCGCGATCTCTGTCGGGAAGCGCAACCTCCCC
GGGCCCCGCGGGGCCGCGCAGGGGGCGTCCTCAACCCCGCGCCCGCTCCCTCTTTCCATCCCCTGCCGCCCGCAG
GCCACCCCGGGGCCCGGCCATCCGCGCGCGCATCCCCGGGTTCGGGCCCGTCCCTGGCCCTCGAGGGAGCCGCCG
CCTTCATCGCCACATCTGCAGCGGCCGCACCAGAGGCCGCCCGGGCGGGACCCCAGCGTGAGCATCGGGCGCCCC
CCTAGGAGTGCACCACCCCCGGAGCCCCCCTCAACACGGACCGCGCCCGCCGGGCACACAAGAATGGTCACTCAG
ATACTGGGGGCCATGGAGTCTCAGGTGGGGGGGGGCCCGGCCGGCCCGGCCCTGCCCAACGGGCCACTCCTTGGT
ACAAATGGAGCCACTGACGACAGCAAGACCAACCTCATCGTCAACTACCTGCCCCAGAACATGACCCAGGATGAG
TTCAAGAGTCTCTTCGGCAGCATTGGCGACATCGAGTCCTGCAAGTTGGTTCGGGACAAGATCACAGGGCAGAGC
CTTGGCTACGGGTTTGTGAACTATTCTGACCCCAATGATGCAGACAAAGCCATCAACACCCTCAACGGCCTCAAA
TTACAGACGAAGACCATCAAGGTGTCCTATGCCAGACCCAGTTCAGCATCCATCCGGGATGCTAACCTGTACGTC
AGCGGGCTCCCCAAGACCATGAGCCAGAAAGAGATGGAGCAGCTCTTCTCCCAGTACGGCCGCATCATCACGTCC
CGCATCCTGGTGGACCAGGTCACAGGTGTCTCTCGGGGTGTGGGATTCATCCGCTTTGACAAGAGGATTGAGGCC
GAAGAGGCTATCAAAGGACTGAATGGGCAGAAGCCGCTGGGCGCAGCTGAGCCCATCACAGTCAAGTTCGCGAAC
AACCCAAGTCAGAAGACGGGGCAGGCGCTGCTCACCCACCTCTACCAGTCATCCGCCCGGCGCTACGCAGGCCCC
CTACACCATCAGACCCAGCGTTTCCGGCTGGACAATTTGCTCAACATGGCCTACGGCGTCAAGAGTCCCCTGTCG
CTCATCGCCAGGTTCTCGCCGATCGCCATCGATGGTATGAGCGGCCTGGCGGGCGTGGGCCTGTCGGGGGGCGCG
GCGGGCGCCGGCTGGTGCATCTTCGTGTACAACCTGTCACCGGAGGCAGACGAGAGCGTGCTGTGGCAGCTGTTC
GGGCCTTTTGGGGCAGTCACCAACGTCAAGGTCATCCGTGATTTCACCACCAACAAGTGCAAGGGTTTCGGCTTC
GTGACCATGACCAACTATGACGAGGCGGCCATGGCCATCGCCAGCCTGAACGGCTATCGCCTGGGCGAGCGCGTG
CTGCAGGTCTCCTTCAAGACCAGCAAACAGCACAAGGCGTGAGCCCACCCCGCCTGCCCTCCCACCCCCTCCCCG
GGCAGCAGAGAGAGAGAGAGAGAAAGAGAGAGAGAGAGAGAAGGGGCCCAAGAGAGACAGCACAGGCAGCCCC
ACGGACGACGCGAGGGCCCCACGTCCCTGCGGAAGCCACAGGGTGAGCACTCTGGGGTGGGAGGGTCTGCAGGGA
ATTGGGGGGGTGCCCGGGGATCCCCCGCCCCATCCTCCTGCCCCCACCCCAGGCTGGGCTGTTCACTCTCTCGTC
TTGGTTTGGTTCATGGTGAAGGTTTTTGTTTCTTTTTTCGGCTAAAAAGAATGCAGAGATGTGCCCCCACCCCCA
CCCTCGACCACCCCCGATGGGATGGCTTGGGGGGCTCCAGGGGGTGCCCTCCCAGACCCCCTTGCCCAGGCCTCC
CCAGCACCTAGGTGGGGCCTGGGGTAGGAGGAACAGGTTTAAAAATCCCCAAAAAAGCGAACCGTGAGGAGGGGT
GTGGGCACCCCCGGCCCAGTGCCCCCTGGTGGAATGCGGGGGAGCAGGCAGTGGGGCTGGAAGCAGAAACAAAAT
GAAAAAAAAAGGGGGGTGGGAGGGGAAGAAAAACTCTATTTTTGTAAAAAGGGAAAAAGACCTCGTGGAGAATTT
TTACTGGGGATTCTTGAACTTGAAAAAAAAAAACACAAAAAAAGAC

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FIGURE 364

ACTTCCGGTCTGGCTCCTAACAACGGGGGAGGCTGGTAACCAGGGTGGGGGGGATGGCGGAGCGGGCGCTAGAGC
CCGAGGCGGAGGCGGAGGCTGAGGCGGGCGCGGGCGGGGAGGCAGCAGCCGAGGAGGGCGCAGCGGGCCGAAAGG
CGCGGGGCCGGCCGCGACTCACGGAGTCGGACCGGGCCCGGCGACGGCTCGAGTCCCGGAAGAAGTACGACGTGC
GGCGCGTGTACCTGGGCGAGGCGCACGGGCCCTGGGTGGACCTGCGGCGCCGCAGCGGCTGGAGCGACGCCAAGC
TCGCCGCCTACCTCATCTCTCTGGAGCGCGGCCAGCGGAGCGGCCGCCACGGGAAGCCTTGGGAGCAGGTCCCCA
AAAAGCCAAAGCGGAAGAAAAGGCGGCGACGCAACGTGAACTGCCTGAAGAACGTGGTGATCTGGTACGAGGACC
ACAAGCACCGCTGCCCGTACGAGCCGCACCTGGCGGAGCTAGACCCCACTTTTGGCCTGTACACCACGGCCGTGT
GGCAGTGCGAAGCTGGCCACCGCTACTTCCAGGACCTGCATTCGCCCCTGAAGCCCCTCAGCGACTCAGACCCTG
ACAGTGACAAAGTGGGCAATGGGCTGGTGGCTGGCAGCTCTGACTCATCCAGCTCTGGCTCTGCCTCTGACTCTG
AGGAGTCTCCTGAGGGCCAGCCGGTCAAGGCTGCGGCAGCGGCAGCGGCAGCGACGCCCACCAGCCCGGTGGGCA
GCAGCGGGCTCATCACTCAGGAGGGCGTGCACATTCCCTTTGACGTCCACCACGTGGAAAGCCTGGCCGAGCAGG
GTACCCCGCTGTGCTCCAACCCAGCAGGCAATGGGCCTGAAGCCCTGGAGACAGTGGTGTGCGTGCCGGTGCCTG
TGCAAGTGGGTGCGGGCCCCAGCGCCCTCTTTGAGAACGTGCCCCAGGAGGCCCTGGGTGAGGTGGTGGCCAGCT
GCCCCATGCCAGGCATGGTGCCCGGCTCACAGGTGATCATCATTGCGGGCCCTGGTTACGACGCTCTCACGGCCG
AGGGCATTCACCTCAACATGGCAGCAGGCAGCGGTGTCCCCGGCAGTGGACTGGGCGAGGAGGTGCCCTGTGCCA
TGATGGAGGGTGTGGCAGCCTACACCCAGACAGAGCCCGAGGGTAGCCAGCCTAGCACCATGGACGCCACCGCAG
TAGCAGGCATCGAGACCAAGAAAGAGAAGGAGGACCTGTGCTTGCTAAAGAAGGAGGAGAAGGAGGAGCCAGTAG
CCCCGGAGCTGGCAACAACGGTGCCTGAGAGCGCAGAGCCTGAGGCAGAGGCGGACGGGGAGGAGCTGGACGGCA
GCGACATGTCAGCCATCATCTATGAAATCCCCAAGGAGCCTGAGAAGAGGCGGCGGAGCAAGCGGTCGCGGGTGA
TGGATGCTGACGGCCTGCTCGAGATGTTCCACTGCCCATACGAGGGCTGCAGCCAAGTCTACGTGGCCCTCAGCA
GCTTCCAGAACCACGTCAATCTTGTGCATCGGAAAGGAAAGACCAAAGTGTGCCCTCATCCTGGCTGTGGCAAGA
AGTTCTATTTATCCAACCACCTGCGGCGGCACATGATCATCCATTCAGGTGTCCGTGAATTCACCTGCGAGACCT
GCGGCAAGTCCTTCAAGAGGAAGAACCACCTGGAGGTACATCGGCGCACCCACACCGGCGAGACCCCCCTGCAGT
GCGAGATCTGTGGCTACCAGTGCCGGCAGCGCGCGTCGCTCAACTGGCACATGAAGAAGCACACTGCGGAGGTGC
AGTACAACTTCACGTGCGATCGCTGCGGGAAGCGCTTCGAGAAGCTGGACAGCGTCAAGTTCCACACGCTCAAAA
GCCACCCGGATCACAAGCCCACCTGACCCACCTGACCACTGACCGCCCCTATTTATTCGTCCGCTCGGACACCAC
GCCCGGGCTTGCCGGGGCCTGGACAGCTGCGAGGGCCGCCCGGACCGCGGGCCGGAAGGAGGCGCCCCCGCCCCG
CCCCAGAGCTGGGCCCCCTGGGCAGGTTCCCCACCCCGCCCCACCGCATCCTTCTCGGAGCTGGTGCCTGGGGCT
GCATTGCTGGAACTGTGTCAAGAGAGCAGAGTGAGATTAAAGAGCGAGAAAGG

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FIGURE 365

GATTTGCTACCTCCCTGGAGCTCCCTGACCCGGACGCTCTCTGGGCCAATATGGCAGCGCCCAGCAACAAGACAG
AGCTGGCCTGGAGTCCGCGGCTGGCCGCGTGAGTAGGTGATTGTCTGACAAGCAGAGGCATGAGCTGGGTCCAGG
CCACCCTACTGGCCCGAGGCCTCTGTAGGGCCTGGGGAGGCACCTGCGGGGCCGCCCTCACAGGAACCTCCATCT
CTCAGGTCCCTCGCCGGCTCCCTCGGGGCCTCCACTGCAGCGCAGCTGCCCATAGCTCTGAACAGTCCCTGGTTC
CCAGCCCACCGGAACCCCGGCAGAGGCCCACCAAGGCTCTGGTGCCCTTTGAGGACCTGTTTGGGCAGGCGCCTG
GTGGGGAACGGGACAAGGCGAGCTTCCTGCAGACGGTGCAGAAATTTGCGGAGCACAGCGTGCGTAAGCGGGGCC
ACATTGACTTCATCTACCTGGCCCTGCGCAAGATGCGGGAGTATGGTGTCGAGCGGGACCTGGCTGTGTACAACC
AGCTGCTCAACATCTTCCCCAAGGAGGTCTTCCGGCCTCGCAACATCATCCAGCGCATCTTCGTCCACTACCCTC
GGCAGCAGGAGTGTGGGATTGCTGTCCTGGAGCAGATGGAGAACCACGGTGTGATGCCCAACAAGGAGACGGAGT
TCCTGCTGATTCAGATCTTTGGACGCAAAAGCTACCCCATGCTCAAGTTGGTGCGCCTGAAGCTGTGGTTCCCTC
GATTCATGAACGTCAACCCCTTCCCAGTGCCCCGGGACCTGCCCCAGGACCCTGTGGAGCTGGCCATGTTTGGCC
TGCGGCACATGGAGCCTGACCTTAGTGCCAGGGTCACCATCTACCAGGTTCCTTTGCCCAAAGACTCAACAGGTG
CAGCAGATCCCCCCCAGCCCCACATCGTAGGTAAGTCCGAGAGCATGGGGGCAGCCAAGTCTCTAACCTTACCCA
GGCCCTGCCAGGTTCTCGCTGGGCCTAGGCTGGGCTCCCTGGGCCTCTGGGCCGAGTCCCTTGCAGGGCACAGGG
CATGTATGTCTCCACACCAGGAATCCAGAGTCCCGATCAGCAGGCCGCCCTGGCCCGCCACAATCCAGCCCGGCC
TGTCTTTGTTGAGGGCCCCTTCTCCCTGTGGCTCCGCAACAAGTGTGTGTATTACCACATCCTCAGAGCTGACTT
GCTGCCCCCGGAGGAGAGGGAAGTGGAAGAGACGCCGGAGGAGTGGAACCTCTACTACCCGATGCAGCTGGACCT
GGAGTATGTGAGGAGTGGCTGGGACAACTACGAGTTTGACATCAATGAAGTGGAGGAAGGCCCTGTCTTCGCCAT
GTGCATGGCGGGTGCTCATGACCAGGCGACGATGGCTAAGTGGATCCAGGGCCTGCAGGAGACCAACCCAACCCT
GGCCCAGATCCCCGTGGTCTTCCGCCTCGCCGGGTCCACCCGGGAGCTCCAGACATCCTCTGCAGGGCTGGAGGA
GCCGCCCCTGCCCGAGGACCACCAGGAAGAAGACGACAACCTGCAGCGACAGCAGCAGGGCCAGAGCTAGTCTGA
GCCGGCGCGAGGGCACGGGCTGTGGCCCGAGGAGGCGGTGGACTGAAGGCATGAGATGCCCTTTGAGTGTACAGC
AAATCAATGTTTTCCTGCTTGGGGCTCTCTTCCCTCATCTCTAGCAGTATGGCATCCCCTCCCCAGGATCTCGGG
CTGCCAGCGATGGGCAGGCGAGACCCCTCCAGAATCTGCAGGCGCCTCTGGTTCTCCGAATTCAAATAAAAAGGG
GCGGGAGCGCTGTTGGTTGTGCGC

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FIGURE 366

TGCAGACGGAACTTCAGCCGCTGCCTCTGTTCTCAGCGTCAGTGCCGCCACTGCCCCCGCCAGAGCCCACCGGCC
AGCATGTCCTCTGCTCACTTCAACCGAGGCCCTGCCTACGGGCTGTCAGCCGAGGTTAAGAACAAGCTGGCCCAG
AAGTATGACCACCAGCGGGAGCAGGAGCTGAGAGAGTGGATCGAGGGGGTGACAGGCCGTCGCATCGGCAACAAC
TTCATGGACGGCCTCAAAGATGGCATCATTCTTTGCGAATTCATCAATAAGCTGCAGCCAGGCTCCGTGAAGAAG
ATCAATGAGTCAACCCAAAATTGGCACCAGCTGGAGAACATCGGCAACTTCATCAAGGCCATCACCAAGTATGGG
GTGAAGCCCCACGACATTTTTGAGGCCAACGACCTGTTTGAGAACACCAACCATACACAGGTGCAGTCCACCCTC
CTGGCTTTGGCCAGCATGGCGAAGACGAAAGGAAACAAGGTGAACGTGGGAGTGAAGTACGCAGAGAAGCAGGAG
CGGAAATTCGAGCCGGGGAAGCTAAGAGAAGGGCGGAACATCATTGGGCTGCAGATGGGCACCAACAAGTTTGCC
AGCCAGCAGGGCATGACGGCCTATGGCACCCGGCGCCACCTCTACGACCCCAAGCTGGGCACAGACCAGCCTCTG
GACCAGGCGACCATCAGCCTGCAGATGGGCACCAACAAAGGAGCCAGCCAGGCTGGCATGACTGCGCCAGGGACC
AAGCGGCAGATCTTCGAGCCGGGGCTGGGCATGGAGCACTGCGACACGCTCAATGTCAGCCTGCAGATGGGCAGC
AACAAGGGCGCCTCGCAGCGGGGCATGACGGTGTATGGGCTGCCACGCCAGGTCTACGACCCCAAGTACTGTCTG
ACTCCCGAGTACCCAGAGCTGGGTGAGCCCGCCCACAACCACCACGCACACAACTACTACAATTCCGCCTAGGGC
CACAAGGCCTTCCCTGTTTTCCCCCCAAGGGAGGCTGCTGCTGCTCTTGGCTGGACCCAGCCAGGCCCAGCCGAC
CCCCTCTCCCTGCATGGCATCCTCCAGCCCCTGTAGAACTCAACCTCTACAGGGTTAGAGTTTGGAGAGAGCAGA
CTGGCGGGGGGGCCCATTGGGGGGAAGGGGACCCTCCGCTCTGTAGTGCTACAGGGTCCAACATAGAGCCGGGTGT
CCCCAACAGCGCCCAAAGGACGCACTGAGCAACGCTATTCCAGCTGTCCCCCCACTCCCTCACAAGTGGGTACCC
CCAGGACCAGAAGCTCCCCCAGCAAAGCCCCCAGAGCCCAGGCTCGGCCTGCCCCCACCCCATTCCCGCAGTGGG
AGCAAACTGCATGCCCAGAGACCCAGCGGACACACGCGGTTTGGTTTGCAGCGACTGGCATACTATGTGGATGTG
ACAGTGGCGTTTGTAATGAGAGCACTTTCTTTTTTTTCTATTTCACTGGAGCACAATAAATGGCTGTAAAATCT

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FIGURE 495

GTCTCCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAGATGTCAGCCCAG
GAGAGCTGCCTCAGCCTCATCAAGTACTTCCTCTTCGTTTTCAACCTCTTCTTCTTCGTCCTCGGCAGCCTGATC
TTCTGCTTCGGCATCTGGATCCTCATTGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG
CAGATCTGGTCCAAAGTCCTGGCCATCTCAGGAATCTTCACCATGGGCATCGCCCTCCTGGGTTGTGTGGGGGCC
CTCAAGGAGCTCCGCTGCCTCCTGGGCCTGTATTTTGGGATGCTGCTGCTCCTGTTTGCCACACAGATCACCCTG
GGAATCCTCATCTCCACTCAGCGGGCCCAGCTGGAGCGAAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAG
TACGGCACCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGGACTATGTGCAGTTCCAGCTGCGCTGCTGCGGC
TGGCACTACCCGCAGGACTGGTTCCAAGTCCTCATCCTGAGAGGTAACGGGTCGGAGGCGCACCGCGTGCCCTGC
TCCTGCTACAACTTGTCGGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTCGGCCTA
CTCGAGCTCGGGTTCATGACGCTCTCGATATTCCTGTGCAGAAACCTGGACCACGTCTACAACCGGCTCGCTCGA
TACCGTTAGGCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT
AAATATTTGTTTAATCCCCAGTTCGCCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG
CCCCTGCTGCTGTCACCTCTCCCACGGGACCTGGGGCTTTCGTCCACAGCTTCCTGTCCCCATCTGTCGGCCTAC

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FIGURE 496A

GAGGGAGCGCCGGGGCCCTGGGCTGCAGGAGGTTGCGGCGGCCGCGGCAGCATGGTGGTGCCGGAGAAGGAGCAG
AGCTGGATCCCCAAGATCTTCAAGAAGAAGACCTGCACGACGTTCATAGTTGACTCCACAGATCCGGGGAGCCTG
GATTGTCACTGGGGGTCTGCACACGGGCATCGGCCGGCATGTTGGTGTGGCTGTACGGGACCATCAGATGGCCAG
CACTGGGGGCACCAAGGTGGTGGCCATGGGTGTGGCCCCCTGGGGTGTGGTCCGGAATAGAGACACCCTCATCAA
CCCCAAGGGCTCGTTCCCTGCGAGGTACCGGTGGCGCGGTGACCCGGAGGACGGGGTCCAGTTTCCCCTGGACTA
CAACTACTCGGCCTTCTTCCTGGTGGACGACGGCACACACGGCTGCCTGGGGGGCGAGAACCGCTTCCGCTTGCG
CCTGGAGTCCTACATCTCACAGCAGAAGACGGGCGTGGGAGGGACTGGAATTGACATCCCTGTCCTGCTCCTCCT
GATTGATGGTGATGAGAAGATGTTGACGCGAATAGAGAACGCCACCCAGGCTCAGCTCCCATGTCTCCTCGTGGC
TGGCTCAGGGGGAGCTGCGGACTGCCTGGCGGAGACCCTGGAAGACACTCTGGCCCCAGGGAGTGGGGGAGCCAG
GCAAGGCGAAGCCCGAGATCGAATCAGGCGTTTCTTTCCCAAAGGGGACCTTGAGGTCCTGCAGGCCCAGGTGGA
GAGGATTATGACCCGGAAGGAGCTCCTGACAGTCTATTCTTCTGAGGATGGGTCTGAGGAATTCGAGACCATAGT
TTTGAAGGCCCTTGTGAAGGCCTGTGGGAGCTCGGAGGCCTCAGCCTACCTGGATGAGCTGCGTTTGGCTGTGGC
TTGGAACCGCGTGGACATTGCCCAGAGTGAACTCTTTCGGGGGGACATCCAATGGCGGTCCTTCCATCTCGAAGC
TTCCCTCATGGACGCCCTGCTGAATGACCGGCCTGAGTTCGTGCGCTTGCTCATTTCCCACGGCCTCAGCCTGGG
CCACTTCCTGACCCCGATGCGCCTGGCCCAACTCTACAGCGCGGCGCCCTCCAACTCGCTCATCCGCAACCTTTT
GGACCAGGCGTCCCACAGCGCAGGCACCAAAGCCCCAGCCCTAAAAGGGGGAGCTGCGGAGCTCCGGCCCCCTGA
CGTGGGGCATGTGCTGAGGATGCTGCTGGGGAAGATGTGCGCGCCGAGGTACCCCTCCGGGGGCGCCTGGGACCC
TCACCCAGGCCAGGGCTTCGGGGAGAGCATGTATCTGCTCTCGGACAAGGCCACCTCGCCGCTCTCGCTGGATGC
TGGCCTCGGGCAGGCCCCCTGGAGCGACCTGCTTCTTTGGGCACTGTTGCTGAACAGGGCACAGATGGCCATGTA
CTTCTGGGAGATGGGTTCCAATGCAGTTTCCTCAGCTCTTGGGGCCTGTTTGCTGCTCCGGGTGATGGCACGCCT
GGAGCCTGACGCTGAGGAGGCAGCACGGAGGAAAGACCTGGCGTTCAAGTTTGAGGGGATGGGCGTTGACCTCTT
TGGCGAGTGCTATCGCAGCAGTGAGGTGAGGGCTGCCCGCCTCCTCCTCCGTCGCTGCCCGCTCTGGGGGGATGC
CACTTGCCTCCAGCTGGCCATGCAAGCTGACGCCCGTGCCTTCTTTGCCCAGGATGGGGTACAGTCTCTGCTGAC
ACAGAAGTGGTGGGGAGATATGGCCAGCACTACACCCATCTGGGCCCTGGTTCTCGCCTTCTTTTGCCCTCCACT
CATCTACACCCGCCTCATCACCTTCAGGAAATCAGAAGAGGAGCCCACACGGGAGGAGCTAGAGTTTGACATGGA
TAGTGTCATTAATGGGGAAGGGCCTGTCGGGACGGCGGACCCAGCCGAGAAGACGCCGCTGGGGGTCCCGCGCCA
GTCGGGCCGTCCGGGTTGCTGCGGGGGCCGCTGCGGGGGGCGCCGGTGCCTACGCCGCTGGTTCCACTTCTGGGG
CGCGCCGGTGACCATCTTCATGGGCAACGTGGTCAGCTACCTGCTGTTCCTGCTGCTTTTCTCGCGGGTGCTGCT
CGTGGATTTCCAGCCGGCGCCGCCCGGCTCCCTGGAGCTGCTGCTCTATTTCTGGGCTTTCACGCTGCTGTGCGA
GGAACTGCGCCAGGGCCTGAGCGGAGGCGGGGGCAGCCTCGCCAGCGGGGGCCCCGGGCCTGGCCATGCCTCACT
GAGCCAGCGCCTGCGCCTCTACCTCGCCGACAGCTGGAACCAGTGCGACCTAGTGGCTCTCACCTGCTTCCTCCT
GGGCGTGGGCTGCCGGCTGACCCCGGGTTTGTACCACCTGGGCCGCACTGTCCTCTGCATCGACTTCATGGTTTT
CACGGTGCGGCTGCTTCACATCTTCACGGTCAACAAACAGCTGGGGCCCAAGATCGTCATCGTGAGCAAGATGAT
GAAGGACGTGTTCTTCTTCCTCTTCTTCCTCGGCGTGTGGCTGGTAGCCTATGGCGTGGCCACGGAGGGGCTCCT
GAGGCCACGGGACAGTGACTTCCCAAGTATCCTGCGCCGCGTCTTCTACCGTCCCTACCTGCAGATCTTCGGGCA
GATTCCCCAGGAGGACATGGACGTGGCCCTCATGGAGCACAGCAACTGCTCGTCGGAGCCCGGCTTCTGGGCACA
CCCTCCTGGGGCCCAGGCGGGCACCTGCGTCTCCCAGTATGCCAACTGGCTGGTGGTGCTGCTCCTCGTCATCTT
CCTGCTCGTGGCCAACATCCTGCTGGTCAACTTGCTCATTGCCATGTTCAGTTACACATTCGGCAAAGTACAGGG
CAACAGCGATCTCTACTGGAAGGCGCAGCGTTACCGCCTCATCCGGGAATTCCACTCTCGGCCCGCGCTGGCCCC
GCCCTTTATCGTCATCTCCCACTTGCGCCTCCTGCTCAGGCAATTGTGCAGGCGACCCCGGAGCCCCCAGCCGTC
CTCCCCGGCCCTCGAGCATTTCCGGGTTTACCTTTCTAAGGAAGCCGAGCGGAAGCTGCTAACGTGGGAATCGGT
GCATAAGGAGAACTTTCTGCTGGCACGCGCTAGGGACAAGCGGGAGAGCGACTCCGAGCGTCTGAAGCGCACGTC
CCAGAAGGTGGACTTGGCACTGAAACAGCTGGGACACATCCGCGAGTACGAACAGCGCCTGAAAGTGCTGGAGCG
GGAGGTCCAGCAGTGTAGCCGCGTCCTGGGGTGGGTGGCCGAGGCCCTGAGCCGCTCTGCCTTGCTGCCCCCAGG
TGGGCCGCCACCCCCTGACCTGCCTGGGTCCAAAGACTGAGCCCTGCTGGCGGACTTCAAGGAGAAGCCCCCACA
GGGGATTTTGCTCCTAGAGTAAGGCTCATCTGGGCCTCGGCCCCCGCACCTGGTGGCCTTGTCCTTGAGGTGAGC
CCCATGTCCATCTGGGCCACTGTCAGGACCACCTTTGGGAGTGTCATCCTTACAAACCACAGCATGCCCGGCTCC
TCCCAGAACCAGTCCCAGCCTGGGAGGATCAAGGCCTGGATCCCGGGCCGTTATCCATCTGGAGGCTGCAGGGTC

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FIGURE 367

GGCTCATCCACCTGCAGACATGGGGCGCAGAAAGTCAAAACGAAAGCCGCCTCCCAAGAAGAAGATGACAGGCAC
CCTCGAGACCCAGTTCACCTGCCCCTTCTGCAACCACGAGAAATCCTGTGATGTGAAAATGGACCGTGCCCGCAA
CACCGGAGTCATCTCTTGTACCGTGTGCCTAGAGGAATTCCAGACGCCCATAACGTATCTGTCAGAACCCGTGGA
TGTGTACAGTGATTGGATAGACGCCTGCGAGGCGGCCAATCAGTAGCGACACAGAGGACCCGCCCCCTGAGCAGC
CCCGCGTACTGTGGATCCAGCTGTTCGGTTCTGGTCCAGAGACATTCCAGGGGTCCAGGGTGTGGGTCCTGGGCT
GTCACAGCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAGTGGGTGTGCGTGTG
GGTGTGGGTGTGAGTGAGTGTGGGTGTGTGTGGCTGCACGTGTCACTGGGGTGGCCGTGAGTGTGTGCTCACAGG
TACGCGGTGGTGTCGGGTTCCTGGGCCTGAGGGGCCTGAACTGATCTCACTTGGCTCCGAAAGCCTTTGCTGTGT
TCCCTGCAGCCCCTGGCCCCCCAGCCTTGGGGCTCTGGCTCCCCCCGGCGGAATTGGGGGACTGTTTCCTGACAT
CCTGGACAAGGGAAGCCCACTAGAGGCTGGAACAGGACCTCTCCAGCCTCCTCACCAGCACCGTGCCCATCTCAA
CTGGACTTCCCGCTCTCCTTCTCCACCTTCTAGTGCCCGTGGCCGGGGATTCAAAGCCGCCGTTCCCCAGGTCCC
TGGGCTGGGCCCTGACAGGGAGCCGCCCCCCTCCCCATGGTAACCAGGAAGCCCGTTTCATGTTCAGTTGCTTTT
GTAGAGGAAGCAAGGGCTGGGATGGGGACAGCTGTCAATCACAAGCCCTTAAATAAAGCAGCCAGCGCAC

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FIGURE 368

CCCACCCGGGCTCGCGTCTCCGTTTCTCCGAGAGGCCCAAGGTGTCTCCGCCGCAGCCTCTGTCGCGCCGTGACC
TGTACAGGTCGCGGGAGTCGTAGGGAGGACGCCGGGACACCTGGAAGCCGAGAAATGGATTCAGTGGCCTTTGAG
GATGTGGCTGTGAACTTCACCCTGGAGGAGTGGGCTTTGCTGGATCCTTCCCAGAAGAATCTCTACAGGGATGTG
ATGCGGGAAACCTTCAGGAACCTGGCTTCTGTAGGAAAACAATGGGAAGACCAGAACATTGAAGACCCATTCAAA
ATTCCCAGGAGAAATATAAGTCATATTCCAGAGAGACTCTGTGAAAGTAAAGAAGGTGGTCAAGGTGAAGAAACC
TTCAGCCAGATTCCAGATGGTATTCTGAACAAGAAAACTCCTGGAGTAAAACCGTGTGAAAGCAGTGTGTGTGGA
GAAGTTGGCATGGGTCCTTCATCACTTAATAGGCACATCAGAGATCACACTGGACGTGAACCAAATGAATATCAG
GAATATGGAAAGAAGTCATATACACGTAACCAGTGTGGACGAGCCTTGAGTTATCATCGCTCTTTTCCAGTACGT
GAAAGGACTCATCCTGGAGGAAAGCCCTATGATTGTAAGGAATGTGGAGAAACCTTTATTTCTCTTGTAAGCATT
CGAAGACACATGTTAACGCATAGGGGAGGTGTACCTTACAAATGTAAGGTGTGTGGGAAAGCCTTTGATTATCCC
AGTTTATTTCGTATACATGAAAGAAGTCACACTGGAGAGAAACCTTATGAATGCAAGCAATGTGGGAAAGCCTTC
AGTTGTTCCAGTTACATTAGAATACATGAAAGGACTCACACTGGAGATAAACCCTATGAATGCAAGCAGTGTGGG
AAAGCTTTCAGTTGTTCCAAGTACATTCGAATCCATGAACGAACTCACACAGGAGAGAAACCCTACGAATGTAAA
CAGTGCGGTAAAGCCTTTAGGTGCGCCAGTTCTGTTCGAAGTCACGAGAGGACTCACACCGGAGAGAAACTTTTT
GAATGTAAGGAATGCGGGAAGGCTTTGACTTGTCTTGCAAGTGTTAGAAGACACATGATAAAGCACACTGGCAAT
GGACCTTATAAATGTAAGGTGTGTGGGAAAGCCTTTGATTTCCCCAGTTCATTTCGAATCCATGAAAGGACCCAC
ACTGGAGAGAAACCCTATGATTGTAAGCAATGTGGGAAAGCCTTCAGTTGTTCCAGTTCGTTTCGAAAACATGAA
AGAATTCACACTGGAGAGAAACCCTATAAATGTACAAAATGTGGGAAAGCCTTCAGTCGTTCCAGTTACTTCCGA
ATCCATGAAAGAACTCACACTGGAGAGAAACCCTATGAATGTAAGCAATGTGGGAAAGCCTTCAGTCGATCCACT
TACTTTCGAGTACATGAAAAAATTCATACTGGAGAGAAACCCTATGAGAACCCTAACCCTAACGCTTCAGTTGTC
CCAGTTCTTTCATGAGCATGAAAGGAGTCACATAGAGAAACCCCATGAAAGTAAGAAATTTGGGAAAGCCTTCAG
TCCTTTCTGTTTCTTTCAACTACGTGAAAGGATTCACAGTGGAGAAAGACCCTGTAAGATAATTGGCTTTAAATT
ACGAGAGACTTGTGATAGGACAGTAAAACCTAGAGTTGGAGTTGGATCTCTGGATTGTGTTATGTCAGTGTTGGT
AGGTTAGGAACTAGATTTCCCAGAATCCATTCCATTTGTGATTCCATGATACAATTCACCAGTAACCTATCTTAC
ATGAGATTCGGAAGTAAGTTAAGAAGGCATTAGTCATGGTTTGGAAGCACCATACAGGGAGACAGCTGTGTGAAT
ACAGGCTGTATGGACACTTGCTTCCATCCCATTTTCCTGCTTCTTTGGGTTGCCAATCAAGAGTATCCTCAAAAC
GACTTGACTTTAATTTTCTCGGAGGTGATAGGCTTCCACACAGGTCTCCAGAAGCCCTGCATTGAATATCCATCC
ACACTTTGGTTTTCCTTCAGACATTATTATGTCTGTACTAGGCAACTAATTCAGACTGTCCTGGTTGGGAATATT
CTGTGATGCTCTGACTCCCCTAGTCTGTAGACGGAATTGGCATACGGTCTAATTTGTGTAGTAAGCACCTTTGTT
CATACTAGTAGTGACTGTATTCTTGATTCAGCCTGATAGCTACCATGCTGCTGTCAAAACCAACCAGAGGGGAGC
TTGTTCTTCTGCTGTAGTGTGCAGTGACTGGCCTCACCCAGGACTTTGATGTGAGAATGAGCACTTTCCTCTATC
AGGAAATTTCAAGTGTTTCCTGTTATTCGTAGCTCAATGTAATGCCTCAGTTCATTTTCAGTTGTTTGATTATAT
GTGACTAATATGTATTTTTTATTCAAACAAGACTTCTGTACATGTTTCTTCAAAACAGTTTATTAACTGTCTTCA
GTCTTGGATTACATCAAGTTTATAATTTTGGCAAATTGTTAAGACACTGTGAAGTCAGCGTTAACCATGTGCATA
CAACTTAAGGAATTTTTTCCTCCTCATGTAAATTTTACTTTTCATGCTTATATAGTTTCAACTTTTATCTTCATA
GTAATTTCTCATCTACTCATAATACCAAAAGTTAAGTCATGCTGTTTTGTGTGCTCTCTTGCTAAAGACCGCAGA
GACCATACCTGTTGTCAAAGAGGGTGTAATAAACTGTAATAATAATCATGACCAC

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FIGURE 369

TTTCTGCCCGTGGACACCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTC**ATG**TCTAAGTCAGAGT
CTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTCACGTATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAA
TTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACC
ATGACTCCGTGGATAAGACTGTCATTCAGAAATACCATACTGTGAATGGCCACAACTGTGAAGTTAGAAAAGCCC
TGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAAACTTTGGTGGTGGTC
GTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTCGTGGAGGAAACTTCAGTGGTCGTGGTGGCTTTGGTGGCA
GCCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAG
GTGGTGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT
TTGGAGGCAGAAGCTCTGGCCCCTATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGTGGCTATGG
CGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAAT**TAG**GAAACAAAGCTTAGCAGGAGAGGAG
AGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAATAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCC
TAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTATTTGTG
ACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAAGCATTCCAACAAAGGGTTTTAACGT
AGATTTCTTTTTGCACCCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGATGCTGAATAAATGTCTTTT
TTTT

FIGURE 370

CTGACAGACACCCACAGACGTGTCTGTAGCATCCTCTGTCACACTGGGACCCGTACTGGCAGCAGGAGCCGTAGG
GAGGACTGGGACACCTGGAAGCCAGGAATTGATTGTACGGGGGCCACTAGAGGGTCATGGGGGAAATCCTGCCTC
GAGTATGGGGTTCGTGTGAGAGGAGCTGACTCAGTGACCTTTGAGGATGTGGCTGTGAACTTCACCCAGGAGGAG
TGGGCTTTGCTGGGTCCTTCCCAGAAGAATCTCTACAGAGATGTG**ATG**TGGGAAACCTTCAGGAACCTGATGTCT
GTAGGAATAAAATGTGAAGACCAGATCATTGAAGATCAGTACAATAATTCCAAAAGAAATCTAAGCTATTGCCAC
TCCTTTCAAACACATGAAAGGCCTCACACTGGAAAGAAACTCCATGTAAGAAATGTGGAAAAACCTTCATTTCTG
TTCAAACCTTTTGAAGATACATGTGAAGATGAACCTTATAAATGTAAGTTTTGTGGGAAGGCCTTTGATAATCTA
CATTTATATCTTACACATGAAAGAACTCACACTGGAGAGAAACCCTATGAATGTAATAAATGTGGGAAAGCCTTC
AGTTGTTCCAGTTCCATTCGAAAACATGCAAGAATTCACACTGGAGAGAAACCCTATATATGTAAACAATGTGGC
AAAGCCTTTAGATATTCCAGTTCTATTCGAAATCATGAAAACACTCACACTGGTGAAAAACCCTGTGAATGTAAG
CAATGTGGGAAAGCCTTTAGTTATTCCAGTTACTTTCGAATACATGAAAGAATTCACACTGGAGAGCAGGTGTAT
AAATGTAAGGAATGTGGGAAAACATTCACTTATCCCAGTGCCTTTCATAAACATAAAAGTACCCACACTTCACAG
AAACTTTATGAATGTAAGGAATGTGGGAAAGCATTTGATTGTTTTAGTTCCTTTCATAGTCATGAAGGGGTTCAC
ACTGGAGAGAAACCCTATGAATGCAGAACGTGGAAAAGCCTTCAG**TAG**

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FIGURE 371

GAGAGAGAGACGCCCTGGAAGGTCTGTATCAGCGTCTGTCGCGCTGGGACCCACACTGGCTTTTAAGGAGGACAC
CCGGACACCTGGAAGCTGGGAAATGAAGTCATACATGTGAAATTAAAGATGACAGTCAATGTGGAGAAACTTTTG
GCCAGATTCCAGATAGTATTGTGAACAAGAACACTCCTCGAGTAAATCCATGTGACAGTGGTGAGTGTGGAGAAG
TCGTCTTGGGTCATTCGTCTCTTAATTGCAACATCAGAGTTGACACTGGACACAAATCATGTGAGCATCAGGAAT
ATGGAGAGAAGCCATATACACATAAACAACGTGGGAAAGCCATCAGTCATCAGCACTCCTTCCAGACACATGAAA
GGCCCCCCACCGGAAAGAAACCCTTCGATTGTAAAGAATGTGCAAAAACCTTTAGTTCTCTTGGAAACCTCCGAA
GACACATGGCGGCACACCATGGAGATGGACCTTATAAATGTAAGTTGTGTGGGAAAGCCTTTGTTTGGCCCAGTT
TATTTCATTTGCACGAAAGAACACACACTGGAGAGAAACCGTATGAATGTAAGCAGTGTTCTAAAGCCTTTCCTT
TTTACAGTTCCTATC**TAA**GACATGAAAGAATCCACACGGGAGAGAAAGCGTATGAATGTAAGCAGTGTTCCAAAG
CCTTTCCTGATTACAGTACCTATCTAAGACATGAGAGAACTCACACCGGAGAGAAACCCTATAAATGTACACAAT
GTGGGAAAGCCTTCAGCTGTTACTATTACACTCGACTACATGAAAGGACTCACACGGGAGAACAACCCTATGCAT
GTAAGCAATGTGGGAAAACGTTTTATCATCACACAAGCTTTCGAAGACACATGATAAGGCACACTGGAGACGGAC
CACATAAATGTAAGATATGTGGGAAAGGCTTTGATTGTCCTAGTTCAGTTCGAAATCATGAAACTACTCACACTG
GAGAGAAACCCTATGAATGTAAGCAGTGTGGGAAAGTGTTATCTCATAGCTCGAGCTTTCGAAGTCACATGATAA
CACACACAGGAGATGGACCCCAGAAATGCAAGATATGTGGGAAAGCCTTTGGTTGTCCCAGTTTATTTCAAAGAC
ATGAAAGGACTCACACTGGAGAGAAACCCTATCAATGTAAACAATGTGGTAAAGCCTTCAGTCTTGCCGGTTCCC
TTCGAAGACATGAAGCAACTCACACTGGAGTGAAACCCTATAAATGTCAGTGTGGGAAAGCCTTTAGTGATCTCT
CTTCCTTTCAAAATCATGAGACAACTCACACTGGAGAGAAGCCATATGAGTGTAAGGAATGTGGGAAAGCATTCA
GTTGTTTCAAATACCTTTCTCAACATAAAAGGACCCACACAGTAGAAAAACCTTATGAGTGTAAAACATGTAGAA
AAGCCTTCAGTCATTTCAGTAACTTAAAAGTCCATGAAAGGATTCACTCTGGAGAGAAGCCATATGAATGTAAGG
AATGTGGAAAAGCATTCTCTTGGCTCACTTGCCTTCTACGACATGAAAGAATTC

FIGURE 372

ATGGACCTTACTACTGAATGTAGAAATGCATTTACTAGTCCTAATTCATTTCAGTTACATGAAAGATTTCAAACT
GCAGAGAACCACTATGAATGTAAACAATGTGAGTCTAGGCCCCCAGTGCTGTCACTCTCACCCATCCTCCTCTAC
ACATGTGAGATGTTTCAGGACCCAGTGGCCTTTGAGGATGTGGCTGTGAACTTCACCCAGGAGGAAAATTTTATG
GGAGAGAGACTCTTTGAGAGTGCAGAAGGTAGTCAGTGTGGAGAAACTTTCACCCAGGTTCCGGAAGACATGCTG
AACAAGAAAACTCTTCCTGGAGTAAAATCATGTGAAAGTGGTACATGTGGAGAAATCTTCATGGGATATTCATCC
TTTAATAGGAACATCAGAACTGACACTGGACACCAACCACATAAGTGTCAGAAATTTTTAGAGAAGCCATATAAA
CATAAACAACGTAGGAAAGCCTTGAGCCATAGCCACTGCTTTCGAACACATGAAAGGCCTCACACTAGAGAGAAA
CCTTTTGATTGTAAGGAATGTGAAAAATCTTTCATTTCTCCTGCAAGCATTCGAAGATATATGGTAACGCACAGT
GGAGATGGACCTTATAAATGTAAGTTTTGTGGGAAAGCCTTGGATTGTCTCAGTTTATACCTTACCCATGAACGA
ACTCACACTGGAGAGAAACGATATGAATGTAAACAATGTGGTAAAGCCTTCAGTTGGCACAGTTCTGTTCGAATC
CATGAAAGAACTCACACTGGGGAGAAGCCATATGAATGTAAGGAGTGTGGGAAATCATTCAATTTTTCCAGTTCC
TTTCGCAGACATGAAAGGACACACACAGGAGAGAAGCCGTACAAATGTAAGGAATGTGGGAAAGCCTTCAATTGT
CCCAGTTCTTTTCACAGGCATGAAAGGACTCACACAGGAGAAAAACCCTATGAATGTAAACTATATGGGAAAGCA
TTATCTCGCCTTATAAGCTTTCGAAGACACATGAGAATGCACACTGGAGAGAGGCCTCATAAATGTAAGATATGT
GGGAAAGCCTTTTACTCTCCCAGTTCATTTCAAAGGCATGAAAGAAGTCACACTGGAGAGAAACCCTACAAATGC
AAGCAATGTGGGAAAGCCTTCACTTGTTCCACTTCGTTTCAATATCATGAAAGGACTCACACTGGAGAGAAACCC
GATGGGTGTAAGCAATGTGGGAAAGCCTTCAGATCTGCCAAGTACATTCGAATACATGGAAGGACTCACACTGGT
GAGAAACCCTATGAATGTAAGCAATGTGGGAAAGCATTTCATTGTGTCAGCTCCTTTCATAGACATGAAAGGACT
CACGCTGGAGAAAAACCTTATGAATGTAAGCATTGTGGGAAAGCCTTCACTTGTTCCATATATATTAGAATACAT
GAAAGAATTCACACTGGAGAGAAACCTTACCAATGTAAGGAATGTGGGAAAGCCTTCATTCGTTCCAGTTACTGT
CGAAAACATGAAAGAACTCACACTATTAATATATGA

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FIGURE 373

ATGTTTCAGGACCCAGTGGCTTTTAAGGATGTGGCTGTGAACTTCACCCAGGAGGAGTGGGCTTTGCTGGATATT
TCCCAGAGGAAACTCTACAGGGAAGTGATGCTGGAAACTTTCAGGAACCTGACCTCTTTAGGAAAAAGGTGGAAA
GACCAGAACATTGAATATGAGCACCAAAACCCCAGGAGAAACTTCAGGAGTCTCATAGAAGAAAAAGTCAATGAA
ATTAAAGATGACAGTCATTGTGGAGAAACTTTTACCCCAGTTCCAGATGACAGACTGAACTTCCAGGAGAAGAAA
GCTTCTCCTGAAGTAAAATCATGTGAAAGCTTTGTGTGTGGAGAAGTTGGCCTAGGTAACTCATCTTTTAATATG
AACATCAGAGGTGACATTGGACACAAGGCATATGAGTATCAGGAATATGGACCAAAGCCATGTAAGTGTCAACAA
CCTAAAAAAAGCCTTCAGATACCGCCCCTCCTTTAGAACACAAGAAAGGGATCACACTGGAGAGAAACCCAATGCT
TGTAAAGTATGTGGAAAAACCTTTATTTCCCATTCAAGTGTTCGAAGACACATGGTAATGCACAGTGGGGATGGA
CCTTATAAATGTAAGTTTTGTGGGAAAGCATTCCATTGTCTCAGATTATATCTTATCCATGAAAGAATTCACACT
GGAGAGAAACCATGTGAATGTAAACAGTGTGGTAAATCCTTTAGTTATTCTGCTACCCATCGAATACATAAAAGA
ACTCACACTGGAGAAAAGCCTTATGAATATCAGGAGTGTGGGAAAGCATTTCATAGTCCCAGATCCTATCGTAGA
CATGAAAGGATTCACATGGGAGAAAAGGCTTATCAATGTAAGGAATGTGGAAAAGCATTCACGTGTCCCCGTTAT
GTTCGTATACATGAAAGGACCCACTCTAGGAAAAATCTCTATGAATGTAAGCAGTGTGGGAAAGCATTATCCTCT
CTTACAAGTTTTCAAACACACGTAAGATTGCACTCTGGAGAAAGACCTTATGAATGTAAGATATGTGGAAAAGAC
TTTTGTTCTGTGAATTCATTTCAAAGACATGAAAAAATTCACAGTGGAGAGAAACCCTATAAATGTAAGCAGTGT
GGTAAAGCCTTCCCTCATTCCAGTTCCCTTCGATATCATGAAAGGACTCACACTGGAGAGAAACCCTATGAGTGT
AAGCAATGTGGGAAAGCCTTCAGATCTGCCTCACACCTTCGAGTGCATGGTAGGACTCACACTGGAGAGAAACCG
TATGAATGTAAGGAATGTGGGAAAGCCTTCAGATATGTGAATAACCTTCAAAGTCATGAAAGGACACAAACACAC
ATAAGAATACACTCTGGAGAAAGACGTTATAAATGTAAGATATGTGGGAAAGGCTTTTATTGTCCCAAATCATTT
CAAAGACATGAAAAAACTCACACTGGAGAGAAACTCTATGAATGCAAGCAACGTTCAGTAGTTCCTTCAGTAGTT
CCAGTTCCTTTTGATATCATGAAAGGACTCACACTGGAGAGAAGCCCTATAAATGCGAGCAATGTGGGAAAGCCT
TCAGAGCTGTGTCAATCCTTTGAATGCATGGTAGGACTCACCCTGAAGAGAAACCCTATGAGTGTGAGCAATGAC
GGAAAGCCTTCAGATCTGCCCCACACCTTTGAATACGTGGTAGGACACACAATGGAGAGAAGCCCTATGCATAAC
CTTCGAATTCATGAAAGGACACAAACACACATAATGCACTCTGTAGAGAGACCTTATAAATGTAAGATATGTGGG
AGGGGCTTTTATTCTGCCAAGTCATTTCAAATACATGAAAAATCTTACACTGGAGAGAAACCCTATGAGTGTAAG
CAATGTGGGAAAGCCTTTGTTTCCTTCACTTCCTTTCGATATCATGAAAGGACTCACACTGGAGAGAACCCCTAT
GAGTGTAAGCAATTTGGGAAAGCCTTCAGATCTGTCAAAAATCTTCGATTTCATAAAAGGACACACACTGGAGAG
AAACCCTGTGAATACATGAAAAGACTCACACTGGAAGGAAACACTATGAATGCAAGCAATGTGGCAAAGCTTTCA
CTTCTTCCAGTTCTTTTCAATATCATGAAAGAACACACTAGGGAGAAACCCTATCAATGTAAGCAATGTGCAAAA
GCCTTTATTTCTTCCACTTCTTTTCAATATCATGAAAGGACTCACATGGGAGAGAAACCCTATGAGTGTATGCCA
AGTGGGAAAGCCTTCATTTCTTCTAGTTCCCTTCAATATCATGAAAGGACTCACACTGGAGAGAAGCCCTATGAA
TATAAGCAATGTGGGAAAGCCTTCAGATCAGCCTCGCACCTTCAAATGCATGGAAGGACTCACACTGGAGAAAAA
CCCTATGAATGTAAGCAGTATGGGAAAGCGTTCAGACCTGACAAGATTCTTTGA

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FIGURE 374

AGAAGAGAAAGTCAATGAAATTAAAGAAGACAGTCATTGTGGAGAAACTTTTACCCCAGTTCCAGATGACAGGCT
GAACTTCCAGAAGAAGAAAGCTTCTCCTGAAGTAAAATCATGTGACAGCTTTGTGTGTGAAGTTGGCCTAGGTAA
CTCATCTTCTAATATGAACATCAGAGGTGACACTGGACACAAGGCATGTGAATGTCAGGAATATGGACCAAAGCC
ATGGAAGAGTCAACAACCTAAAAAAGCCTTCAGATATCACCCCTCCTTGAGAACACAAGAAAGGGATCACACTGG
AAAGAAACCCTATGCTTGTAAAGAATGTGGAAAAAACATTATTTACCATTCAAGCATTCAAAGACACATGGTAGT
GCACAGTGGGGATGGACCTTATAAATGTAAGTTTTGTGGGAAAGCATTCCATTGTCTCAGTTTATATCTTATCCA
TGAAAGAACTCACACTGGAGAGAAACCGTATGAATGTAAACAATGTGGTAAATCTTTTAGTTATTCTGCTACCCA
TCGAATACATGAAAGAACTCACATTGGAGAAAAGCCTTATGAATGTCAGGAATGTGGGAAAGCATTCCATAGTCC
CAGATCCTGTCACAGACATGAAAGGAGTCACATGGGAGAGAAGGCTTATCAATGTAAGGAATGTGGAAAAGCATT
CATGTGTCCCCGTTATGTTCGTAGACATGAAAGGACCCACTCTAGGAAAAAACTTTATGAATGTAAGCAGTGTGG
GAAAGCATTATCCTCTCTTACAAGTTTTCAAACACACATAAGAATGCACTCTGGAGAAAGACCTTATGAATGTAA
GACATGTGGGAAAGGCTTTTATTCTGCCAAGTCATTTCAAAGACATGAAAAAACTCACAGTGGAGAGAAACCGTA
TAAATGCAAGCAATGTGGTAAAGCCTTCACTCGTTCCGGTTCCTTTCGATATCATGAAAGGACTCACACTGGAGA
GAAACCCTATGAGTGTAAGCAATGTGGGAAAGCCTTCAGATCTGCCCCAAATCTTCAATTGCATGGTAGGACTCA
CACTGGAGAGAAACCGTATCAATGTAAGGAATGTGGGAAAGCTTTCAGATCTGCCTCACAACTTCGAATCCATCG
TAGGATTCACACTGGAGAGAAACCCTATGAATGTAAGAAATGTGGGAAAGCCTTCAGATATGTCCAGAACTTTCG
ATTTCATGAAAGGACACAAACACATAAGAATGCACTCTGGAGAAAGACCTTATAATATATAAGATATATGGGAAAC
ACTTTTATTCTGCCAAGTTATTTCAAACACATGAAAAAATTCACACTGGAGAGAAACCCTATAAATGCAAGCAAT
GTGGTAAAGCCTTAATTGTTCCAGTTCCTTTCGATATCTAAAAGGACTCACAGTGGAGAAAAACTCTATGAGTGT
AAGCAATGTGGGAAAGTCTTCAGATCTGTCAAGAACCTTTCAATTTATGAAAGGACACACACTGGAGAGAAACCC
TATGAATGTAAGAAATGTGGAAAAGCGTTCCATAATTTCTCTTCTTTTCAAATACATGAAAGTTGCACAGAGGAG
AGGCGCCCTAAGAATGTAAGCATTGTGGGAAAGCATTCATATCTGCCAAGATCGTTTGAATACATGCAAAACACA
CACTGGAGAGAAACCTATGAATGTAAGGAATGCAAACAAGCATTCAATTATTTTTCTTCCTTGCATATACATGAA
AGGACTCATACGAGAGAGAATCCGTATGAATGTAAGGATTGTGGGAAAGCATTCAGCTTGCTTAATTGCTTTCAT
AGACATGTAAAGACACACCAGAAGGAAACCCTATGAATGTAAGCAATGTGGCAAAAGCTTTCACTTCTTCCAGTT
CTTTTCAATATCATGAAAGGACTCACACTGGGGAGAAACCGTATCAATGTAAGCAATGTGGGAAAGCCGTCAGAT
CAGCCTCAAGACTTCAAATGCATGGAAGCACTCACACTTGGCAGAAACTCTATGAATGTAAGCAGTATGGGAAAG
CCTTCAGATCGGCTAGGATTCTTTGAATACAAATAATGAATGTAAACAATTAACTGTTTATAATAACTGTATACT
AACAAATGTTATTCTTTTTAAATAATTAAGAAGCTATAATAAAATATCCATTGGTGTCATGTATT

FIGURE 375

CGGAAATGGAGGGGGTCGCTTTCCTCACCTTCCTCGCTGCGCGGGCGGCGGTTGGTAACCGGTCAGACCAGCCCG
AGAGGGACCTGGTGCCTGTACCCAGGCTTCTGTCGCTCTGTCGCCTGCGCTATGCCCTGCTGTAGTCACAGGAGC
TGTAGAGAGGACCCCGGTACATCTGAAAGCCGGGAAATGGACCCAGTGGCCTTTGAGGATGTGGCTGTGAACTTC
ACCCAGGAAGAGTGGACATTGCTGGATATTTCCCAGAAGAATCTCTTCAGGGAAGTGATGCTGGAAACTTTCAGG
AACCTGACCTCTATAGGAAAAAAATGGAGTGACCAGAACATTGAATATGAGTACCAAAACCCCAGAAGAAGCTTC
AGGAGTCTCATAGAAGAGAAAGTCAATGAAATTAAAGAAGACAGTCATTGTGGAGAAACTTTTACCCAGGTTCCA
GATGACAGACTGAACTTCCAGGAGAAGAAAGCTTCTCCTGAAGTAAAATCATGTGACAGCTTTGTGTGTGCAGAA
GTTGGCATAGGTAACTCATCTTTTAATATGAGCATCAGAGGTGACACTGGACACAAGGCATATGAGTATCAGGAA
TATGGACCAAAGCCATATAAGTGTCAACAACCTAAAAATAAGAAAGCCTTCAGGTATCGCCCATCCATTAGAACA
CAAGAAAGGGATCACACTGGAGAGAAACCCTATGCTTGTAAAGTCTGTGGAAAAACCTTTATTTTCCATTCAAGC
ATTCGAAGACACATGGTAATGCACAGTGGGGATGGAACTTATAAATGTAAATTTTGTGGGAAAGCCTTCCATTCT
TTCAGTTTATATCTTATCCATGAAAGAACTCACACTGGAGAGAAACCATATGAATGTAAACAATGTGGTAAATCC
TTTACTTATTCTGCTACCCTTCAAATACATGAAAGAACTCACACTGGGGAGAAGCCCTATGAATGTAGCAAATGT
GATAAAGCATTTCATAGTTCTAGTTCCTATCATAGACATGAAAGAAGTCACATGGGAGAGAAGCCTTATCAATGC
AAAGAATGTGGAAAAGCATTTGCATATACCAGTTCTCTTCGTAGACATGAAAGGACCCACTCTGGGAAAAAACCG
TATGAATGTAAGCAATATGGGGAAGGCTTATCCTATCTTATAAGTTTTCAAACACACATAAGAATGAACTCTGGA
GAAAGACCTTATAAATGTAAGATATGTGGGAAAGGCTTTTATTCTGCCAAGTCATTTCAAACACATGAAAAAACT
CACACTGGAGAGAAACGCTATAAATGCAAGCAATGTGGTAAAGCCTTCAATCTTTCCAGTTCCTTTCGATATCAT
GAAAGGATTCACACTGGAGAGAAACCCTATGAGTGTAAGCAGTGTGGGAAAGCCTTCAGATCTGCCTCACAGCTT
CGAGTGCACGGTGGGACTCACACTGGAGAGAAACCCTATGAATGTAAGGAATGTGGGAAAGCCTTCAGATCTACC
TCACACCTTCGAGTGCATGGTAGGACTCATACTGGAGAGAAACCCTATGAATGTAAGGAATGTGGGAAAGCCTTC
AGATATGTGAAGCACCTTCAAATTCATGAAAGGACAGAAAAACACATAAGAATGCCCTCTGGAGAAAGACCTTAT
AAATGTAGTATATGTGAGAAAGGCTTTTATTCTGCCAAGTCATTTCAAACACATGAAAAAACTCACACTGGAGAG
AAACCCTATGAATGCAACCAATGTGGTAAAGCCTTCAGATGTTGCAATTCCCTTCGATATCATGAAAGGACTCAC
ACTGGAGAGAAACCCTATGAGTGTAAGCAATGTGGGAAAGCCTTCAGATCTGCCTCACACCTTCGAATGCATGAA
AGGACTCACACTGGAGAGAAACCCTATGAGTGTAAGCAATGTGGGAAAGCCTTCAGTTGTGCCTCAAACCTTCGA
AAGCATGGTAGGACTCACACTGGAGAGAAACCCTATGAGTGTAAGCAATGTGGGAAAGCCTTCAGATCTGCCTCA
AACCTTCAGATGCATGAAAGGACTCACACTGGAGAGAAACCCTATGAATGTAAGGAATGCGAAAAAGCATTCTGT
AAATTCTCTTCTTTTCAAATACATGAAAGGAAGCACAGAGGAGAGAAGCCCTATGAATGTAAGCATTGTGGGAAT
GGATTCACATCTGCCAAGATTCTTCAAATACATGCAAGAACACACATTGGAGAGAAACACTATGAATGTAAGGAA
TGCGGAAAAGCATTCAATTATTTTTCTTCCTTGCATATACACGCAAGGACTCATATGGGAGAGAAGCCATATGAA
TGTAAGGATTGTGGGAAAGCATTCAGCTAGCCTGGTTCCTTTTATGGACATGAATAGACTCACACTGGAAGGAAG
CACTATGAATGCAAGCAATGTGGCAAAACTTTCACATTTTCCAGTTCTTTTCGATATCATGAAAGGACTCACACT
GGGGAGAAACCCTATCAATGTAAGCAGTGTGGGAAAGCCTTCATTCCTTTTACTTCTTTTCAATGTCATGAAAGG
ACTCACACGGGAGAGAAACCCTATGAGTGTATTCTAGTTCCGTTTGATATCATGAAAGGACTTACACTGGAGTGA
AACCCTATGAATGTAAGCAATGTGGGAAAGCCTTCAGATGTGCCTCGCACCTTCAACGGCATGGAAGGGTTCACA
CTTGGGAGAAACTCTATGAATGTAAGCAGTATGGGAAAGCCTTCAGATCTGCCAAGATTCTTTGAATACAGATAA
TTAATGTAAACAATTATCATAAGTATACTAACATGTTATTCTTTTTAAATAAGAAGGTATAATAAAATATCCCAT
TGGTTTTATGTATT

FIGURE 376A

ATGAAGGATGAAGGGGCAGGGACGGCCCACGGAGTGAGGAAGACAACAGTGTCCCTTCTAGCAGTTCGGAGCAAG
TTTGGCCGAAGGCAAATATTCGAAGTAAAGGATTCGGTGGCCTTTGAGGATGTGGCTGTGAACTTCACCCAGGAG
GAGTGGGCTTTGCTGGATCCTTCCCAGAAAAATCTCTACAGGGAAGTGATGCAGGAAACCTTGAGGAACCTGACC
TCCATAGGACTATTTTTCTGGGTCCGCATTTTAGGAAAAAAATGGAACAACCAGTACATTGAAGATGAGCACCAA
AATCCTAGGAGAAACCTAAGAAGACTTATAGGGGAGAGACTCTCTGAAAGTAAAGAAAGTCATCAGCATGGAGAA
GTTTTGACACAGGTTCCAGATGACACACTGAAGAAGAAAACTCCTGGAGTACAATCATATGAAAGCAGTGTGTGT
GGAGAAATCGGCATAGGTCTTTCATCCCTTAATAGGCACCTCAGAGCCTTTAGTTATTCCAGTAGCCTTGCAATA
CATGGAAGAACTCACACTGGGGAAAAGCCTTATGAATGTAAGGAATGTGGGAAAGCATTCAGGTTTCCCAGTTCT
GTTCGTAGACATGAAAGAATCCACTCTGCAAAAAAACCCTATGAATGTAAGCAGTGTGGGAAAGCATTCAGTTTT
CCCAGTTCTGTTCGTAGACATGAAAGAATCCACTCTGCAAAAAAACCCTATGAATGTAAGCAGTGTGGGAAAGCA
TTATCTTATCTTGTAAGCTTTCAGACACACATGAGAATGCACACTGGAGAGAGACCTCATAAATGTAACATATGT
GGGAAAGCCTTTTTTTCTCCCAGTTCGTTAAAAAGACACGAGAAAAGTCACACTGGAGAGAAACGCTATAAATGC
AAGCAATGTGATAAAGCCTTCAATTGTCCCAGTTCCTTTCAATATCATGAAAGGACTCACAGTGGAGAGAAACCC
TATGAGTGTACACAATGTAGGAAAGCCTTCAGATCTGTCAAGTACCTGCGAGTACATGAAAGAAAACACACTGGA
GAGAAACCCTATGAGTGTAAGCTATGTGGTAAGGGATTTATTTCTTCCACTTCCTTTCGCTATCATGAAAAGACT
CACACTGGAGAGAAACCTTATGAATGTAAAAAATGTGTGAAAGCCTTCAGTTTTGTCAAGGATCTTCGAATACAT
GAAAGGACACACACTGGAGAGAAACCCTTTGAATGTAAACAATGTGGGAAAACCTTCACTTCTTCCAATTCCTTT
CACTATCATGAAAGGACTCACACTGGAGAGAAACCCTATGAGTGTAAGCAATGTGGGAAAGCCTTCAGATCTGCC
TCAGTCCTTCAAAAGCACATACGAACTCACACAGGAGAGAAACCCTATGGATGTAAGCAATGTGGTAAAGTCTTT
AGAGTTGCCTCACAACTTAAAATGCATGAAAGGACTCACACAGGAGAGAAACCCTATGAGTGTAAGCAATGTGGA
AAAGCCTTCATTTCTTCTAATTCTATTCGCTATCATAAAAGGACTCACACTGGAGAGAAACCCTATAAATGTAAA
CAGTGTGGGAAAGCCTTCATTTCTTCCAACTCTTTTCTCTACCATGAAAGGATTCATACTGGAGAGAAACCCTAT
GAGTGTAAGCAATGTGGTAAAGCCTTTAGATCTGCCTCAATCCTTCAAAAGCATAGTATAGGCTTCCCAGTGATG
TTAGTCTTATCCATCCTCCTCTATACATGTGAGATGTTTCAGGATTCAGTGGCCTTTGAGGATGTGGCTGTGACC
TTCACCCAAGAGGAGTGGGCTTTGCTGGATCCTTCCCAGAAAAATCTCTGTAGAGATGTGATGCAAGAAACCTTC
AGGAACCTGGCCTCTATAGGGAAAAAATGGAAACCCCAGAACATATATGTAGAGTACGAAAATCTAAGGAGAAAC
CTAAGAATTGTGGGAGAGAGACTCTTTGAAAGTAAAGAAGGTCATCAGCATGGAGAAATTTTGACCCAGGTTCCA
GATGACATGCTGAAGAAAACAACTACTGGAGTAAAATCATGCGAAAGCAGTGTGTATGGAGAAGTAGGCAGTGCT
CATTCATCTCTTAATAGGCACATCAGAGATGACACTGGACACAAGGCATATGAGGATCAAGAATATGGACAGAAA
CCATATAAATGTAAATACTGTAAAAAACCTTTCAACTGTCTCTCCTCTGTTCAGACACATGAAAGGGCTCATAGT
GGAAGGAAACTCTATGTTTGTGAGGAATGCGGAAAAACATTTATTTCCCATTCAAACCTTCAAAGACACAGGATA
ATGCACCGTGGAGATGGACCTTATAAGTGTAAATTTTGTGGGAAAGCCTTGATGTTTCTCAGTTTGTATCTTATC
CACAAACGAACTCACACTGGAGAGAAACCATATCAATGTAAACAGTGTGGTAAAGCCTTTAGTCATTCTAGTAGC
CTTCGAATACATGAAAGAACTCACACTGGGGAGAAGCCTTATAAATGTAATGAATGTGGGAAAGCATTCCATAGT
TCCACATGCCTTCATGCTCATAAAAGAACTCACACTGGGGAGAAGCCATATGAATGTAAACAGTGTGGGAAAGCC
TTCAGCTCTTCCCATTCCTTTCAAATACATGAAAGAACTCACACGGGGGAGAAGCCATATGAATGTAAGGAATGT
GGAAAAGCATTCAAGTGTCCCAGTTCTGTTCGCAGACATGAAAGAACCCACTCTAGGAAAAAACCCTATGAATGT
AAACATTGTGGGAAAGTATTATCTTATCTTACCAGCTTTCAAAACCACTTGGGAATGCACACTGGAGAGATATCT
CATAAATGTAAGATATGTGGGAAAGCCTTTTATTCTCCCAGTTCACTTCAAACACATGAAAAAACTCACACTGGA
GAGAAACCCTATAAATGCAACCAATGTGGTAAAGCCTTTAATTCTTCCAGTTCCTTCCGATATCATGAAAGAACT
CACACTGGAGAGAAACCTTACGAGTGTAAGCAATGTGGGAAAGCCTTCAGATCTGCCTCACTCCTTCAAACACAT
GGTAGGACTCACACGGGAGAGAAACCCTATGCATGTAAGGAATGTGGAAAACCATTTAGTAATTTCTCTTTCTTT
CAAATACATGAAAGGATGCACAGAGAAGAGAAGCCGTATGAATGTAAGGGTTATGGGAAAACATTCAGTTTGCCC
AGTTTATTTCATAGACATGAAAGGACTCACACTGGAGGAAAAACCTATGAATGCAAGCAGTGTGGCAGATCCTTC
AACTGTTCGAGCTCCTTTCGATATCATGGAAGGACTCACACTGGAGAGAAACCCTATGAATGCAAGCAATGTGGA
AAAGCCTTCAGATCTGCCTCACAGCTTCAAATTCATGGAAGGACTCACACTGGAGAGAAACCTTATGAATGTAAG
CAGTGTGGGAAAGCCTTTGGATCTGCCTCACACCTTCAAATGCATGGAAGGACTCACACTGGAGAGAAACCCTAT
GAATGTAAGCAGTGTGGGAAGTCTTTTGGATGTGCCTCGCGACTTCAAATGCATGGAAGGACTCACACTGGAGAG

FIGURE 376B

AAACCGTATAAATGTAAGCAATGTGGGAAAGCTTTTGGATGTCCCTCAAACCTTCGAAGGCATGGAAGGACTCAC
ACTGGAGAGAAACCCTATAAATGTAACCAATGTGCAGCAATGACTTTAAAGGCCAGGGAGAGGTGGGAAAAGGTG
AGGGCTCCCAGGATGCAATGCCGGAGACATGGTGATGTCCTTAGGTCCAGGACTGCTGGGGGGCAATGGCACC**TGA**

FIGURE 377A

CCATTCAAGCATTCAAAGACACATGATAATGCACAATGGAGATGGAACTTATAAATGTAAGTTTTGTGGGAAAGC
CTGCCCTTGTCTCAGCATATATCTTATACATGAACGAGTTCACACTGGAGAGAAACCATATAAATGTAAACAATG
TGGTAAAGCCTTTAGTTATTCAACTTCCCTTCAAATACATGAAAGAACTCACACTGGAGAGAAGCCTTATGAATG
TAAGGAATGTGGGAAAGCATTCGGTAGTCCCAATTCCCTTTATGAACATAGAAGAACTCACACTGGAGAGAAGCC
ATATGAATGCAAACAATGTGGAAAAGCCTTCAGATGGTTCCATTCCTTTCAAATACATGAAAGAACTCACAGTGA
GGAGAAGGCTTATGAATGTACCAAATGTGGGAAAGCATTCAAGTGTCCCAGTTATCTTTGTAGACATGAAGTGAC
CCACTCTGGGAAAAAGCCCTGTGAATGTAAACAATGTGGGAAAGCATTATCTTATCTTAACTTTCAAAGACACAT
GAAAATGCACACTAGAATGAGACCTTATAAATGTAAGACTGTGGAAAAGCCTTTGATTCTCCCAGTTCGTTTTGA
AGACATGAAAGAACTCACACTGGAGAGAAACCTTATGAATGCAAGCACTGTGGTAAAGCCTTCAATCGTTCCAGT
TCCTTTCACTATCATGAAAGGACTCACACTGGAGAGAAACCCTATGAATGTAAGCAGTGTAGTAAAGCCTTCATT
TCTTCCACTTCCTTTCGATATCATGAAAGGACTCACACTGGAGAGAAACCGTATGAGTGTAAGCAATGTGGGAAA
GCCTTCAGATCTGCCTCACACCTTCAAATGCATGGAAGGACTCACACTCAAGAGAAACCCTATGAATGTAAGCAG
TGTGGTAAAGCCTTCATTTTTTCCACTTCCTTTCGATATCATGAAAGGACTCACACTGGAGAGAAACCCTATGAG
TGTAAGCAATGTGGGAAAGCCTTCACATCTGCCTCACACCTTCAAATGCATGAAAGGACTCACACTGGAAAGCAA
CTGTATGAATCTAAACAATGTGAAAAAACCTTTGGATCTGTCAGAAACCTTCAAATTCATGAAAAGACACACCCT
GGAGAGAAACCCTATAAGGAATATGGAAAAGCATTCAACAATTTCTCTTCCTTTCAAATACATGCAACAATGCAC
AGAGGACAGAATGCCTATGAATGTAAAGAGTGTGACAAAGCATTCATATCTGCCAAGATCCTTCGAGTACATGCA
AGAACACACCCTGGAGAGAAACCCTATGAATGTAAGGAATGCGGAAAAGCGTTCAATTATTTTTCTTCTTTGCGT
ATACACAAAAGGATGCACACTGGAGAGAAACCATATTAATGTAAGGATTGTGGGAAAGCATTCAGTTTGCCTGGT
TCCTTTCGTAGACATAAAAGGGCTCACACTGGAGTGAAACCGTATGAATGCAAGGAATGTGGCAAAGCCTTCACT
TCTTCTGGTTCCTTTCAGTGTCATAAAAGGATTCACACTGGAGAGAAACCCTATGAGTGTAAGCAGTGTGGTAAA
GCCTTCATTTCTTCCACTGCCATTCGTAGACATGAAAGGACTCACACTGGAGAGAAACCCTATGAGTGTAAGCAA
TGTGGAAAAGCCTTTATTTCTTTCAGTTCCATTCAGTACCATGAAAGGACTCACACTGGAGAGAAACAGTATGAG
TGTAAGCAGTGTGGTAAAGCCTTCATGTCTTCTACTGCATTTCAGTATCATGAAAAGACCCACACCAGAGAGAAA
CACTATGAATGTAAGCAGTGTGGGAAAGCCTTCATTTCTTCCGGTAGCCTTCGATATCATGAAAGGACTCACACT
GGAGAGAAACCCTATGAATGTAAGCAGTGTGGTAAAGCCTTCAGATCTGCCACTCAACTTCAGATGCATAGAAAG
ATTCACACTGGCGAGAAACCCTATGAATGTAAGCAATGTGGGAAAGCCTACAGATCTGTCTCACAACTTCTGGTG
CATGAAAGGACTCACACTGTAGAGCAACCCTATGAATATAAGCAATATGGGAAAGCCTTCAGATTTGCTAAGAAC
CTTCAAATACAGACAATGAATGTAAACAATTAAATGTTTATAGCAGCTGCATACTAACATGTTATTCTGTATTTT
TTTTTTCTTTTTGAGACAGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGTGATCTCAGCTCACTGCAA
GCTCCACCTCCTGGGTTCACGCCATTCTCCTGCCTCAGTCTCCTGAGTAGCTGGGACTACAGGTGCCTGCCACCA
CACCCGGCTGATTTTTTGTATTTTTTAGTAGAGACGGAGTTTCATCGTGTTAGCCAGGATGGTCTCAATCTCCTG
ACCTCGTGATCTGCCCGCCTCAGTCTCCCAAAGTGCTGGGATTACAGGTATGAGCCACCGTGCCCGGCCGTTATT
CTCTATTTTTTGTTGTTGTTTGAGATGAGTCTTGTTCTGTTGCCCAGGCTGGAGTGCAGTGGCATGATCTCGCCT
CCGGGTTCAAGCAATTCTCCTGCCTCAGGCTCCTGAGGAAAAAGATTCCTAGGATTACAGGTGTGCACCACCACA
CTTGGCTAATTTTTATATTTTTAGTAGAGATGAGGTCTCACCCTATTGGCCACACTGGTCTTGAACTCCTGACCT
GAAGTGATCCACCTGCCTTAGCCTCCCAAAGTGCTGGGATGACAGGCATGAGCCACTGCACCCAGCTGTTATTCT
CTATTTAATTAATTGAGAAGCCATAATAAAATATCTCAGTGCCATCATGCATTAGATCAAGTTTATGTTACCACA
TTATTTTTTGGACATTGTGAGTCAATATTACCAAGTGGACAAAATCCCAGGCATCTTTTTCCTCATGTAAATTTT
AATTTTCATGCTTATATACTTAGAACATTTATCTTGGTCCTAATTTTTTGTTCATTCATAATACCAAAAGTTATC
TCATGTTCTTCAGAGTGACTTTGTGCCATATCCCACAGTGGCATACCTGTCTTCAAAGAGGGTATAATTCACAAA
AGGACTTACACTAGAGGAAAACCCTATGAATGTAAGCTGCGTGGGAAAGCATTTTCTGATCTGAGTGGCATTGAA
ACCCACATGGTATTGCACATGACAGATAGGCCTCTCTCCCCGTTCATTTCTTTTTTTTTGAGACGGAGTCTTGCT
CTGTCGCTGAGGCTGAGAACAGTGGTTCCATCTCTGTTCACTGCCACCTCCACCTCCTGGGTTCAAGTGATTCTC
CTGCCCCAGCCTCCCAAGTAGCTGGGATTACAGGTGACCGCCACCACGCCCAGCTAATTTTTGTATTTTTAGTAG
AGACGGGGCTTCACTATGTTGGCCAGGTTCGTCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTCAGCCTCCC
AAAGTGCTGTGCATACAGGCATGAGCCACTGCACCCGGCCTTCTCCCCATTCATTTTCAAAGACATAAAAGGATG
CACAATAAAGAGAGACCCTCTGAATGCAAGCAATATGGAAAAGCATTCCATTGTATCAGATCCTTTTGTAGCCAT

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FIGURE 377B

GAAAGAACTCGCTGAAGAGAAACCCTGTAAATGAAGGGAATGTGAAAAGCCTTCATTCCTGAAATGAAGCAATTC
ATACTATTAATATATGAGAGAAATCCTATTATAAGAAATTGATTGCTGTGCACGGTAGCTTACCTGTAATTCCAG
CACTTCCAGAGGCTAAGGCAGGTGGATCACTTGAGGTCAGGAGTTCAATACCAGCCTGGGCAACATAGTGAAACC
CTGTCTCTACCAAAAATACAAAAATTAGCCAGGCATGGTGGCGCGTGCCTGTAGTCCCAGCTACTCAGGAGGCTG
AGGCAGGAGAATCACTTGAACCCAGGAGCTGGATGTTGCAGTGACCCGAGATTACGCCACTGTACCCCAGCAGAG
TGAGACTCCATCTGAAAAAAAAAAGCAAGGGGCCGGCACGGTGGTTCACGCCTGTAATCCCAGCACTTTGGGAGAC
CAAGGCAGGCAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCTAACATGGCAAAACCCCATCGCTACTAA
AAATACAAAAAATTAGATGGGCATGGTGGCACATGCCTGTAATCCCAGCTACATGGGAGACTGAGGCAGGAGAAT
TGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACAGCATTGCACTTCAGCCTGGGCAACAAGAGTG
AAACTCCATCTCAAAAAAAAAAAAAAAAAAAATTGAGGAAGCATTCAGTTGTCCCACTTCCTTTCAAACAGGAAG
AGACACTAGAGAGAAACCCTCTGAGATAACTGACTGTTGAATTAAGAAGAGAGGCCTGGCCGGACACAGTGGCTC
ACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCGGATCACGAGGTCAGGAGATCAAGACCATCCTGGCT
GACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAAACTAGCTGGGCGTGGTGGTGGGCGCCTGTAGTCCC
AGCTACTCGGGAGGCTGAAGCAGGAGAATGGCGTGAATCCAGGAGGCAGAGCTTGCAGTGAACCGAGATCGCGCC
ACTGCACTCCAGCGGCGACAGAGCAAGACTCCGTCTC

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FIGURE 378

ATGCACACTGGAGAGAAGCCATATGAATGTAAGAATTGTGGGAAAGCCTTCACATCTGCCAAGAGCCTTCAAAAT
CATGGAAGGACACACACCGGAGAGAAACCATGTGAATGCAAGCAATGTGGCAAAGCTTTCATTTGTTCCAGTTCC
TGTACCACTGCAAATTTGCAGAGGGTAACAGAGGCTGAGGCCAGTATGGAGGCTGCAGAGGGAGGGAAATGGAGC
TCCCATGGGTGCTTCCTGGGCGGCCCAACCTATTCTGCATGTGGCCTCCAGCTGTTCAGAGCAGCTCCAGGAGTG
TGGATTCTGATAAGCCGCAGAGCCCTGGAAAGCAAGAGACTATGTGCAGATGTCCTTGGCAGGGCGCTGTCCCTT
CTGTGGTTGGACCTCTGGAGCCTGGGGCCATATTCGGGAACAGTGTTTTGGTTCTGA

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FIGURE 379

CTACTCCGAGAGGCCCCGGGTCCCTCTGCCACAACTTCTGTCGCTCTGCCGCCTGCACCGTGACCCGCACTATTC
ACGGGAGCCCTAGAGAGGACACCGGGACACCCAGAAGCCGGGAAATGATGTTTCAGGATTCAGTGGCCTTTGAGG
ATGTGGCTGTCAGCTTCACCCAGGAGGAGTGGGCTTTGCTGGATCCTTCCCAGAAGAATCTCTACAGGGATGTGA
TGCAGGAAACCTTCAAGAACCTGACCTCTGTAGGAAAAACATGGAAAGTTCAGAACATTGAAGATGAGTACAAAA
ATCCCAGGAGAAATCTAAGTCTTATGAGAGAGAAACTCTGTGAAAGTAAAGAAAGTCATCACTGTGGAGAAAGCT
TCAACCAGATTGCAGATGACATGCTGAACAGGAAAACTCTTCCTGGAATAACACCATGTGAAAGCAGTGTGTGTG
GAGAAGTTGGCACGGGTCATTCATCTCTTAATACGCATATCAGAGCTGACACTGGACACAAGTCATCTGAGTATC
AGGAATATGGAGAGAATCCATATAGAAATAAGGAATGTAAGAAAGCCTTCAGTTATCTTGACTCCTTTCAATCAC
ATGATAAAGCTTGCACTAAAGAGAAACCCTATGATGGTAAAGAATGTACAGAAACCTTCATTTCCCATTCATGCA
TTCAAAGACACAGGGTAATGCACAGTGGAGATGGACCTTATAAATGTAAGTTTTGTGGGAAAGCCTTCTATTTTC
TCAATTTATGTCTTATCCATGAACGAATTCACACTGGTGTGAAACCATATAAGTGTAAACAATGTGGTAAGGCCT
TTACTCGTTCCACTACCCTTCCAGTACATGAAAGAACTCACACAGGAGTGAATGCCGATGAATGTAAAGAATGTG
GGAATGCATTCAGTTTTCCTAGTGAAATTCGTAGACATAAAAGGTCTCACACTGGAGAAAAACCCTATGAGTGTA
AGCAATGTGGGAAAGTCTTCATTTCTTTCAGTTCCATTCAGTATCATAAGATGACTCACACTGGAGAGAAACCCT
ATGAATGTAAGCAGTGTGGGAAAGCCTTTAGATGTGGCTCACACCTTCAAAAGCATGGAAGGACTCACACTGGAG
AGAAACCCTATGAATGTAGGCAATGTGGTAAAGCCTTCAGATGTACCTCGGACCTTCAAAGGCATGAAAAGACAC
ACACTGAGGATAAACCCTATGGATGTAAGCAGTGTGGGAAAGGCTTTAGATGTGCTTCACAACTTCAAATTCATG
AAAGGACGCACAGTGGAGAGAAACCCCATGAATGTAAGGAATGTGGAAAAGTATTCAAGTATTTTTCTTCCTTGC
GTATACATGAAAGGACGCACACTGGAGAGAAGCCCCATGAATGTAAGCAATGTGGAAAAGCATTCAGGTATTTCT
CTTCCTTGCATATACATGAAAGGACACACACTGGAGATAAGCCATATGAGTGTAAGGTATGTGGCAAAGCCTTCA
CTTGTTCCAGTTCCATTCGATATCATGAAAGGACTCACACTGGAGAGAAACCCTATGAATGTAAGCACTGTGGTA
AGGCCTTTATTTCCAATTACATTCGATATCATGAAAGGACTCACACTGGAGAGAAACCCTATCAATGCAAGCAAT
GTGGCAAAGCCTTTATTCGTGCCAGTTCATGTCGAGAACATGAAAGAACTCATACCATTAATAGATGAGAAATCC
TTTTAGTGGAAGCAACGGGAGAAGCTTTCTGTTGTCCCACTTCCTTTGAAACACAAGAAAAGAGAGTGGTGAAAG
AACCTCTGGATAACTGCTTTTTGAATTGAGAAGAGAGACTTGCGATAGGACAATAAAATCTAGAAGAACTTGGAT
GGTTTCGTAATACAATTCACCTATAGCCAATCTTGCATGAGATTTCAAAGGCACAGAAAAGGAAGGCATCAGTCA
CATATTAGAGGCCCCACACAGGGAGAGAGGTGTGTGGCTACCCGCTTCCAGCCCATTTTCCTGATTCTTTGGCTT
GTTAATCGAGAATATCCCCCAAATCACTTGTCTCTGTTCCTCAGAGTTGTAGGTCTCCAGATATGTCCCCAGTGC
TCCACATTAAAGATACATGCCCACTTTGCTGTTTCTTCAGAAATGTTAAAATGTTTACCAGAGAACTAATAAATG
TTGTTATGGCTGGAAATACTCACTGATGCCCAACTCTTCTATAGATTGAGTTGGTTTAAGAGGTCTACTTTGTAT
TGCAAGCATTGTTGTTTCTACGGATTAGCGAGCCTGTTCTTGATTAAACCAACTAGATGGGAGCTTG

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FIGURE 380

GGCGTCTTGCACCAAAGGGAGGTCGGGATCTCGGTTTTCCGGCCCCGAGAGGGACCAGGTGCCTCCGCCATAGCT
TCTGTCGCTCCATCGCCCGCACTGTGACTGGACTGTTAGAGGGATCCGTGGAGAGGAGGCCAGGACACCTGGAAG
CCGGGAAATGGATTCAGTGGTCTTTGAGGATGTAGATGTGAACTTCACCCAGGAGGAGTGGGCTTTGCTGGATCC
TTCCCAGAAGAATCTCTACAGAGATGTGATGCAGGAAACCTTCAGGAACCTGGCTTCTGAAAAAAATGGAAAGAT
CAGAAAATTGAAGATGAGTACAAAAATCCCAGGAGAAACCTAAGAGGTCTTATGGGAGAGAGACTCTTAGAAAGT
AAGAAAGATCATCAGCATGGAGAAATTTTGACCCAGGTTCCAGATGACATGCTGAAGAAGAAAACTCCCCGAGTA
AAATCATGTGGAGAAGTCAGCGTGGGTCATGCATCCCTTAATAGGCACCACAGAGCTGACACTGGACACAAGCCA
TATGAGTATCAGGAATATGGACAGAAGCCATATAAATGTACATACTGTAAGAAAGCCTTCAGTGATCTCCCCTAC
TTTCGAACACATGAATGGGCTCACACTGGGGGGAAACCTTATGATTGTGAGGAATGTGGAAAAAGCTTTATTTCC
CGTTCAAGCATTCGAAGACACAGGATAATGCACAGTGGAGATGGACCCTACAAATGTAACTTTTGTGGGAAAGCC
TTGATGTGTCTCAGTTTGTATCTTATCCACAAACGAACTCACACTGGAGAGAAACCATATGAATGTAAACAGTGT
GGTAAAGCCTTTAGTCATTCTGGTAGCCTTCGAATACATGAAAGAACTCACACTGGAGAGAAGCCTTATGAATGC
AGTGAGTGTGGGAAAGCATTCCATAGTTCCACATGCCTCCATGCACATAAAATAACTCACACTGGGGAGAAGCCG
TATGAATGTAAACAGTGTGGGAAAGCCTTTGTTTCTTTCAATTCCGTTCGATATCATGAAAGAACTCACACTGGA
GAGAAGCCCTATGAATGTAAGCAATGTGGGAAAGCCTTCAGATCTGCCTCGCACCTTCGAACACATGGAAGGACT
CACACTGGAGAGAAACCCTATGAATGTAAACAATGTGGTAAAGCCTTTGGATGTGCCTCGAGCGTTAAAATCCAT
GAAAGGACTCACACTGGAGAAAAACCCTGTAGCTCCAACACTTCGAAAGGCCAAGGCGAGAAGATTGCTTAATTC
ACATAAGATTCCTAGAAGCCACCGAATCCAATCATGGTAAAAATGTGTTTCCCTCAAATCATGGGAACCATCGCA
AAATTATTCTGAAGCTTCTGCAGTCACTGTCATTTGACAGCATTCAGAAATAAATGCCAGTAGCCCAGGAGCAAA
AATTTTTGGGAGTAGTTTAGCTGGGGCCTCACTCAGATACCTAGGACACAGAGTTGGAAATAACTCTTAAGAGAG
ACACACCTCCAGTAAGACCTTAAGACAGTTCTGTCATAAAAAAAATACGAGGTTTGGCCGGGTGCAGTGGCTCAT
GCCTATAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGACCACGAGGTCAGTAGTTCGAGACCAGCCTGGTCAA
TATGGTGAAACCCCATCTCTACTAAAAAATACAAAAA

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FIGURE 382

CATGAAGGAACTCACACTCTAGAGAAACCCTATGAATGTAAGCAATGTGGGAAATTGTTATCTCATCGCTCAAGC
TTTCGAAGACAC**ATG**ATGGCACACACTGGAGATGGCCCTCATAAATGCACAGTATGTGGGAAAGCCTTTGATTCT
CCTAGTGTATTTCAAAGACATGAAAGGACTCACACTGGAGAGAAACCCTATGAATGCAAGCAATGTGGGAAAGCC
TTCCGTACTTCCAGTTCCCTTCGAAAACATGAAACAACACACACTGGAGAGCAACCCTATAAATGTAAATGTGGA
AAAGCTTTTAGTGATTTATTTTCCTTTCAAAGTCATGAAACAACACACAGTGAAGAGGAGCCTTATGAATGTAAG
GAGTGTGGGAAAGCATTTAGTTCTTTTAAATACTTTTGTCGCCATGAAAGGACTCACAGTGAAGAAAAATCTTAT
GAGTGTCAAATTTGTGGCAAAGCCTTCAGTCGTTTCAGTTACTTAAAAACTCATGAAAGGACTCACACGGCAGAG
AAGCCATATGAATGTAAGCAATGCAGGAAAGCATTCTTTTGGCCCTCTTTCCTTCTAAGACATGAAAGGACTCAC
ACTGGAGAAAGACCCTATGAATGTAAACACTGTGGTAAAGCCTTCAGTCGTTCCAGTTTCTGTCGAGAACATGAA
AGAACTCACACTGGAGAGAAGCCCTATGAATGTAAGGAATGTGGGAAAGCCTTCAGTTCTCTCAGTTCCTTTAAT
AGACATAAAAGGACACACTGGAAGGATATTCTA**TAA**GTGTATGGAATGTGGGAAAGCATTCATTGGTTTTATCAC
ATTCAGATACTTGAAAGAAATAAATCCTGTGAATGTAAACGTGGTAAAGCCTTAAGAAGTTTCCAGGCTGGGCGC
AGCGGCTCACACCTGTAATCCCAGCACTTTGAGAGGCCGAGGAGGGCAGATCACGAGGCCAGGAGATCGAGACCA
GCCTGGCTAACATGGGAAACCCTGTCTCTACTAAAAATACGG

FIGURE 383

GCCAGGTTCAAAGAGCCCGCGGCGTCTTCACGCCCCTGCGCTCAGCTCTAGACTCAGTCGCTCGCTGAGAGACGC
CCTGGAACGTCTGTGTAGCCTCAGTCGCTGAGAGACGCCCTGGAACGTCTGTGGCAGCCTCTGTCACAGTGGGAC
CCGCACTGGCAGCGGGAGGCAGAGGGAGGACCCTGGAACATCCCGGAAGCCGGGAA**ATG**GACGCAGTGGCCTTTG
AGGATGTGGCTGTGAACTTCACCCAGGAGGAATGGGCTTTGCTGGGTCCATCACAGAAGAATTTATACAGATATG
TGATGCAAGAAACCATCAGGAACCTGGACTGTATAAGAATGATATGGGAAGAACAGAATACTGAAGATCAGTACA
AAAATCCTAGGAGAAATCTAAGATGTCATATGGTAGAGAGATTCAGTGAAAGTAAAGACAGTAGTCAGTGTGGAG
AAACATTTAGCCTCATTCGAGATAGTATTGTGAACAACAGCATTTGTCCTGGAGAAGATCCATGTCAAAGCGCTG
AGTGTGAAGAAGTCATAATGGGTCATTTATCCCTTAATAGCCACATCAGAGTTGATTCTGGACACAAACCACATG
AGTATCAGGAATATGGAGAGAAGCCACATACACATAAACAACGTGGGAAAGCCTTCAGTTACCATCACTCCTTTC
AGTCGCGTGGAAGGCCTCACACTGGAAAGAAACGCTATGAGTGTAAGGAATGTGGAAAAACCTTCAGTTCTCGTA
GAAACCTTCGAAGACACATGGTAGTGCAAGGTGGAAATAGACCTTATAAATGTAAGTTGTGTGGGAAAGCTTTTT
TTTGGCCCAGTTTATTACGTATGCATGAAAGAACTCACACTGGAGAGAAACCGTATGAATGTAAGCAGTGTTCTA
AAGCCTTTCCTTTTTACAGTTCCTATCGAAGACATGAGAGAATGCACACTGGGGAGAAACCGTATGAATGTAAGC
AGTGTTCTAAAGCCTTGCCTGATTCCAGTTCCTATATAAGACATGAAAGAACTCACACTGGAGAGAAACCATATA
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